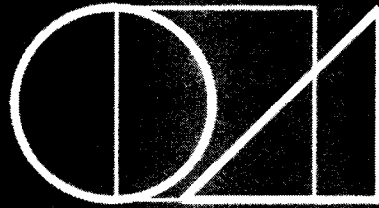


3B

- 1.) El Mar (Oriana)**
- 2.) FDOT – A1A – Pine to Terra Mar**
- 3.) LBTS – Pine Avenue from A1A to El Mar**
- 4.) LBTS – El Mar – Commercial to Pine**

OCAMPO & ASSOCIATES



OCAMPO & ASSOCIATES
ARCHITECTURE URBAN DESIGN PLANNING INTERIORS

Plantation, Fl. / Stuart, Fl.
954.424.3443 / 77.286.9004

"A MULTI-DISCIPLINARY"

APPROACH TO DESIGN

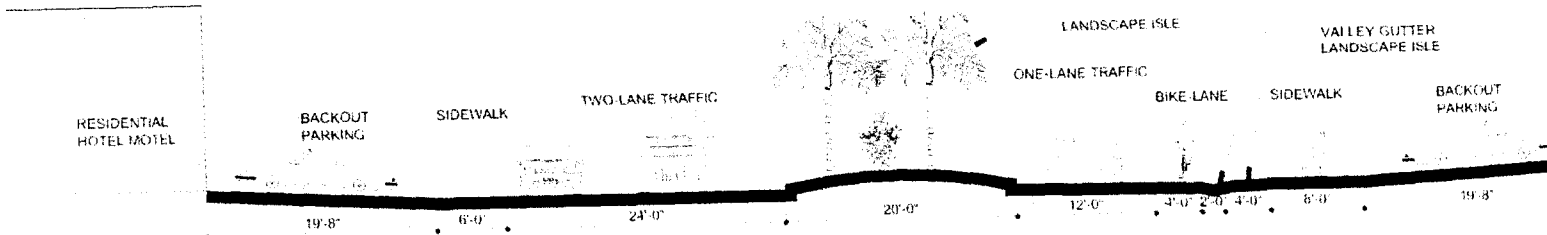
Prepared for:
TOWN OF LAUDERDALE BY THE SEA

BEAUTIFICATION
OF

EL MAR DRIVE

BEAUTIFICATION OF EL VIEJO DRIVE AT LAUDERDALE IN THE SEA

PROJECT No. 1-09131
JULY 2009



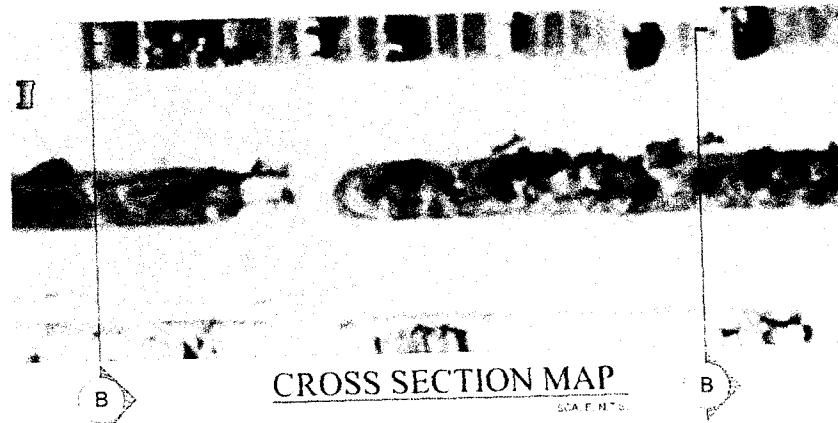
B CROSS SECTION OF ARIANA

SCALE 1/2" = 1'-0"



STREET VIEW

SCALE N.T.S.



CROSS SECTION MAP

SCALE N.T.S.

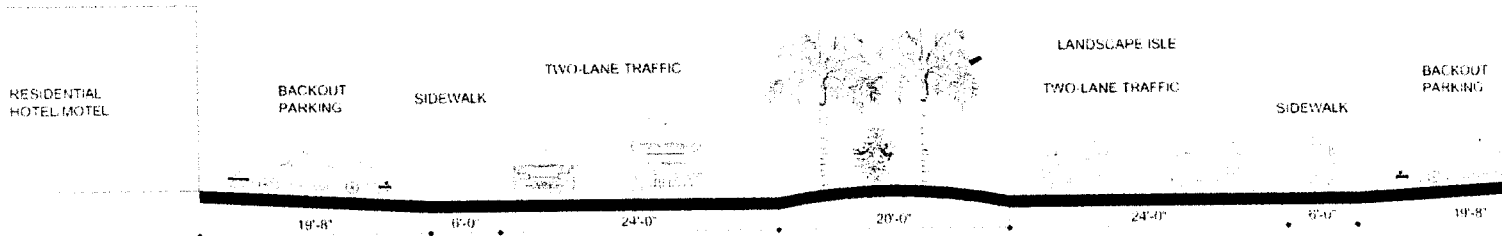


**OCAMPO &
ASSOCIATES**

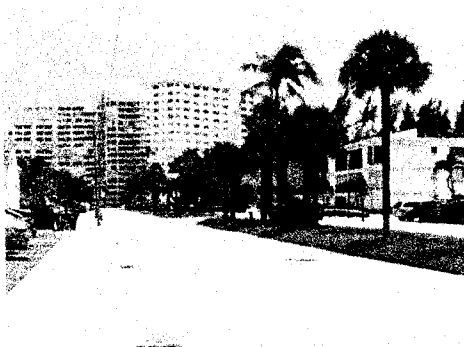
400 N.E. 15th Ave., Suite 100, Fort Lauderdale, FL 33304
TEL: 754.466.1111 FAX: 754.466.1112

IDENTIFICATION OF SIGNALS AND AT LAUDERDALE TO THE SEA

PROJECT No. 109131
JULY 2009

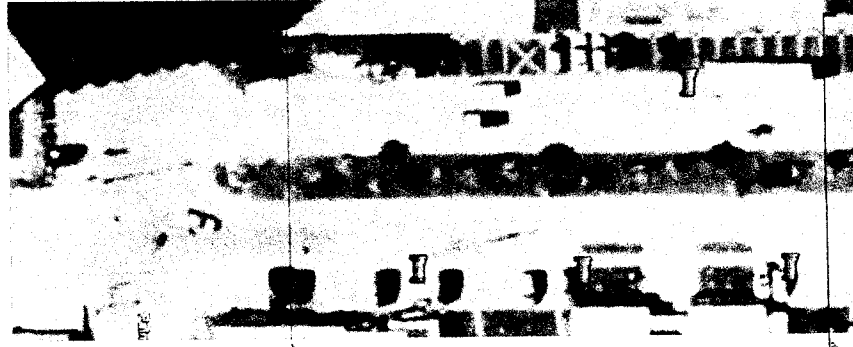


TYPICAL CROSS SECTION OF EL MAR DRIVE



STREET VIEW

SCALE: 1" = 10'



CROSS SECTION MAP

SCALE: 1" = 10'

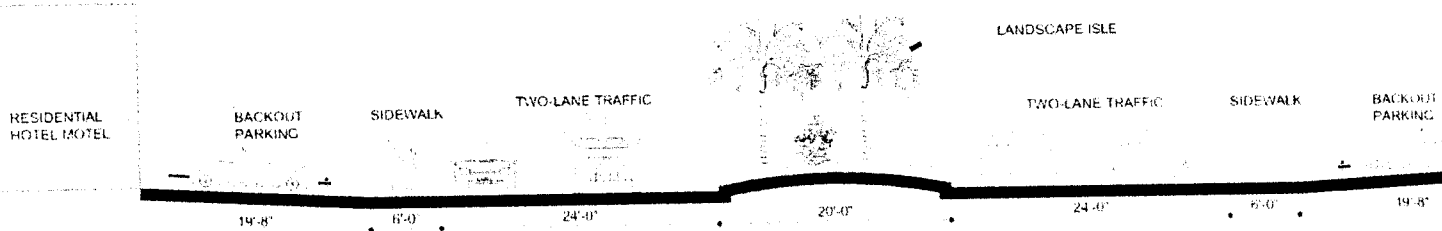


OCAMPO &
ASSOCIATES

1000 WEST 10TH AVENUE, SUITE 100, MIAMI, FL 33135
TEL: 305.371.1111 FAX: 305.371.1112

BEAUTIFICATION OF 312' NORTH STREET AT LAURELDALE IN THE P.E.S.

PROJECT No. 149131
JULY, 2009

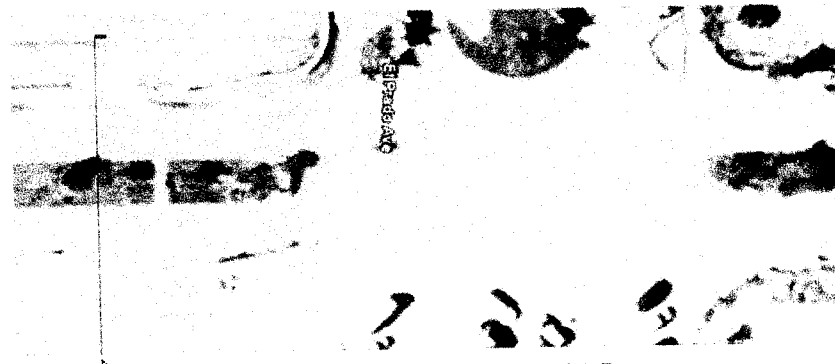


TYPICAL CROSS SECTION OF EL MAR DRIVE



STREET VIEW

SCALE: N.T.S.



CROSS SECTION MAP

SCALE: N.T.S.



**OCAMPO &
ASSOCIATES**

ARCHITECTS, ENGINEERS, PLANNERS, AND DESIGNERS
1000 CALIFORNIA STREET, SUITE 1000, SAN FRANCISCO, CA 94109
415.774.1000 FAX 415.774.1001 WWW.OCAMPO-ASSOCIATES.COM

BEAUTIFICATION OF EL MAR DRIVE AT LAUDERDALE BY THE SEA

PROJECT No. 109131
JULY 2009



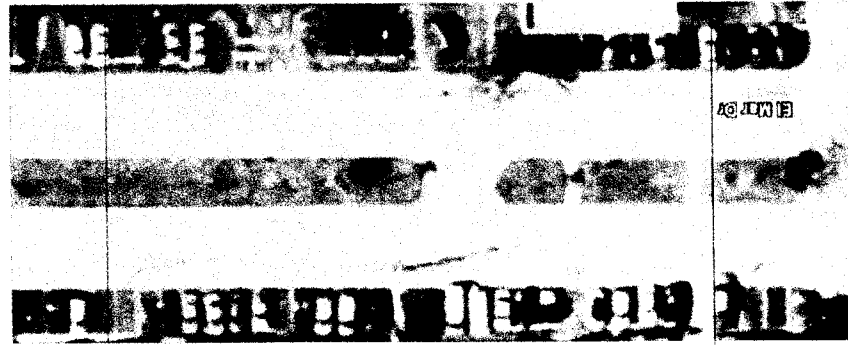
TYPICAL CROSS SECTION OF EL MAR DRIVE

SCALE 3/32" = 1'-0"



STREET VIEW

SCALE 1" = 10'



CROSS SECTION MAP

SCALE 1" = 10'

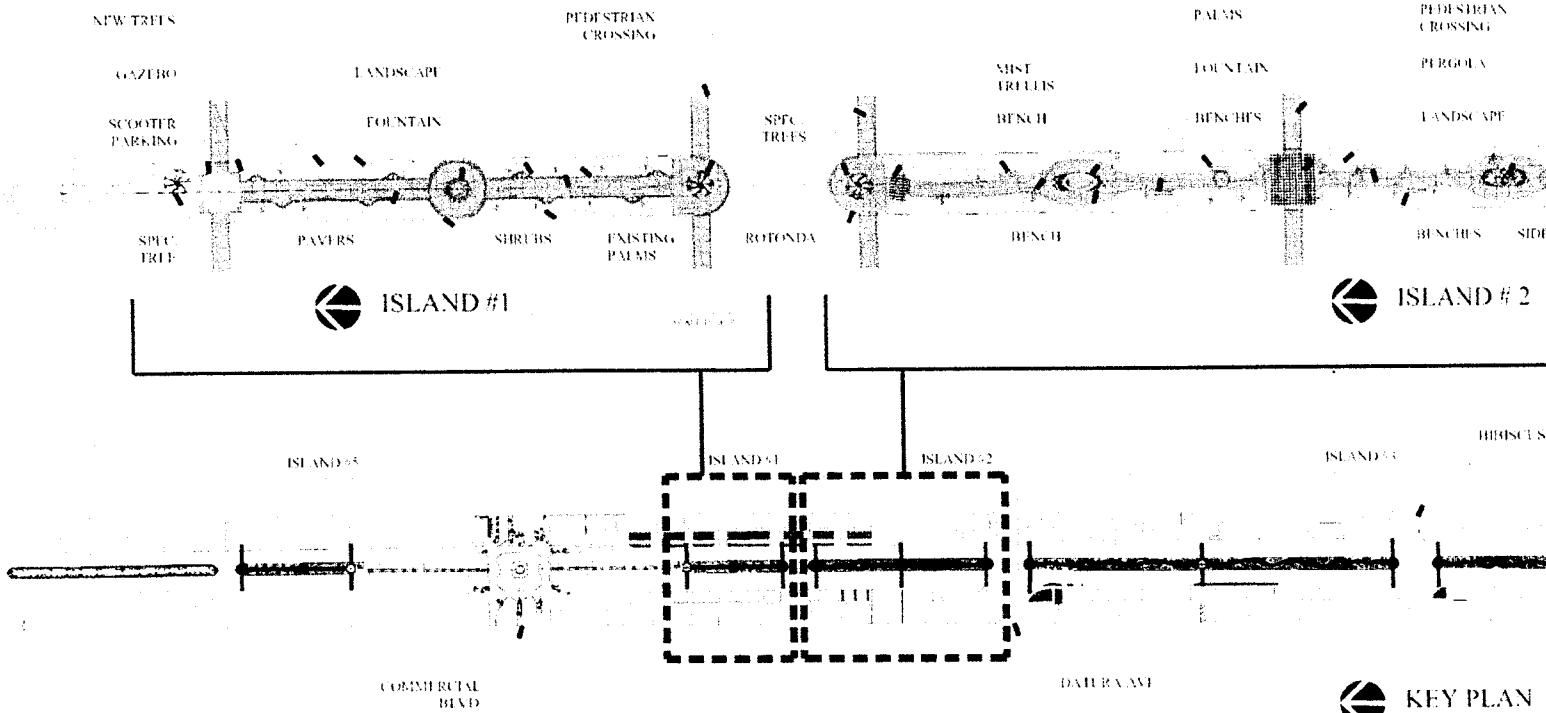


OCAMPO & ASSOCIATES

ARCHITECTS, ENGINEERS, PLANNERS, AND LANDSCAPE ARCHITECTS
1111 ALABAMA STREET, SUITE 100, ALBUQUERQUE, NEW MEXICO 87102

BEAUTIFICATION OF EL MAR DRIVE AT LAURELHILL BY THE SEA

PROJECT No. 1-09137
JULY 2009

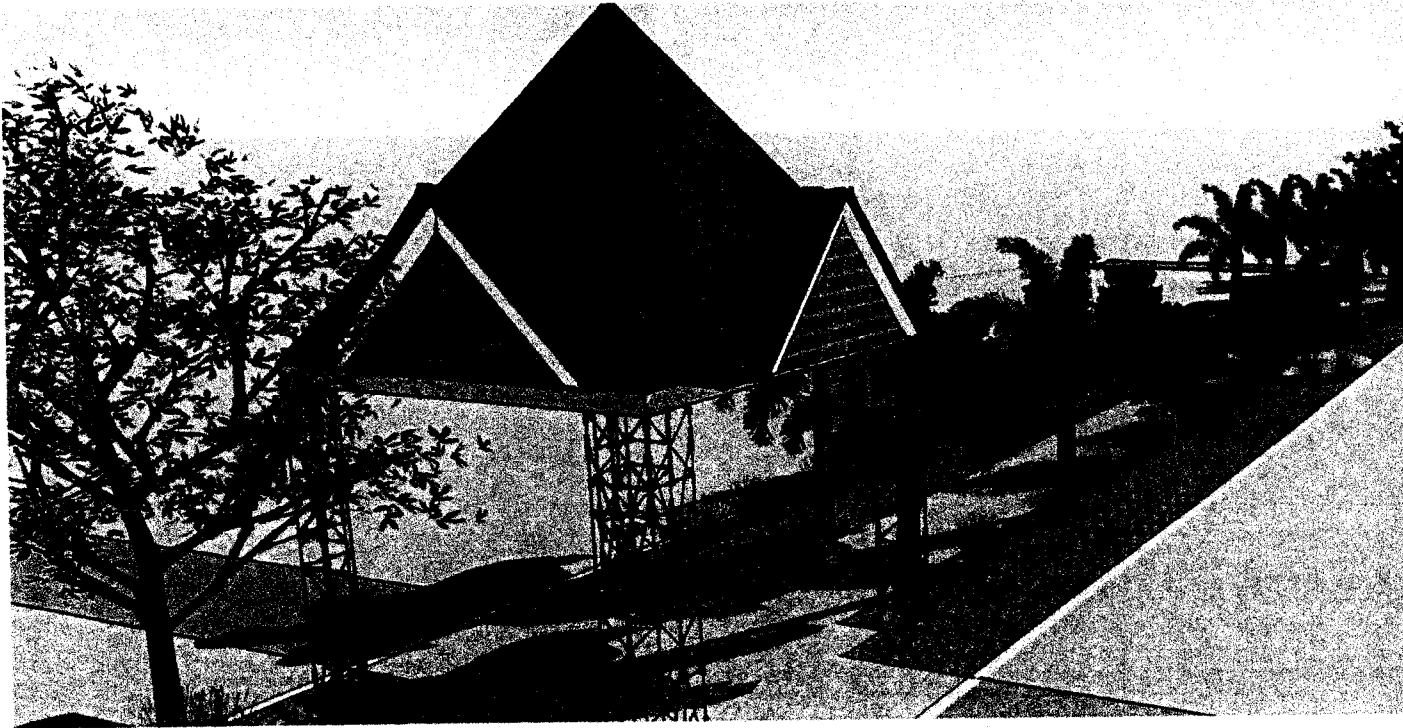


OCAMPO &
ASSOCIATES

PROJECT NO. 1-09137, JULY 2009, PG. 10 OF 10
BY: JUAN CARLOS OCAMPO, P.E., L.S., L.P.

IDENTIFICATION OF
EL MAN DEQUE
AT LAUDERDALE BY THE SEA

PROJECT No. 1-09131
JULY 2009



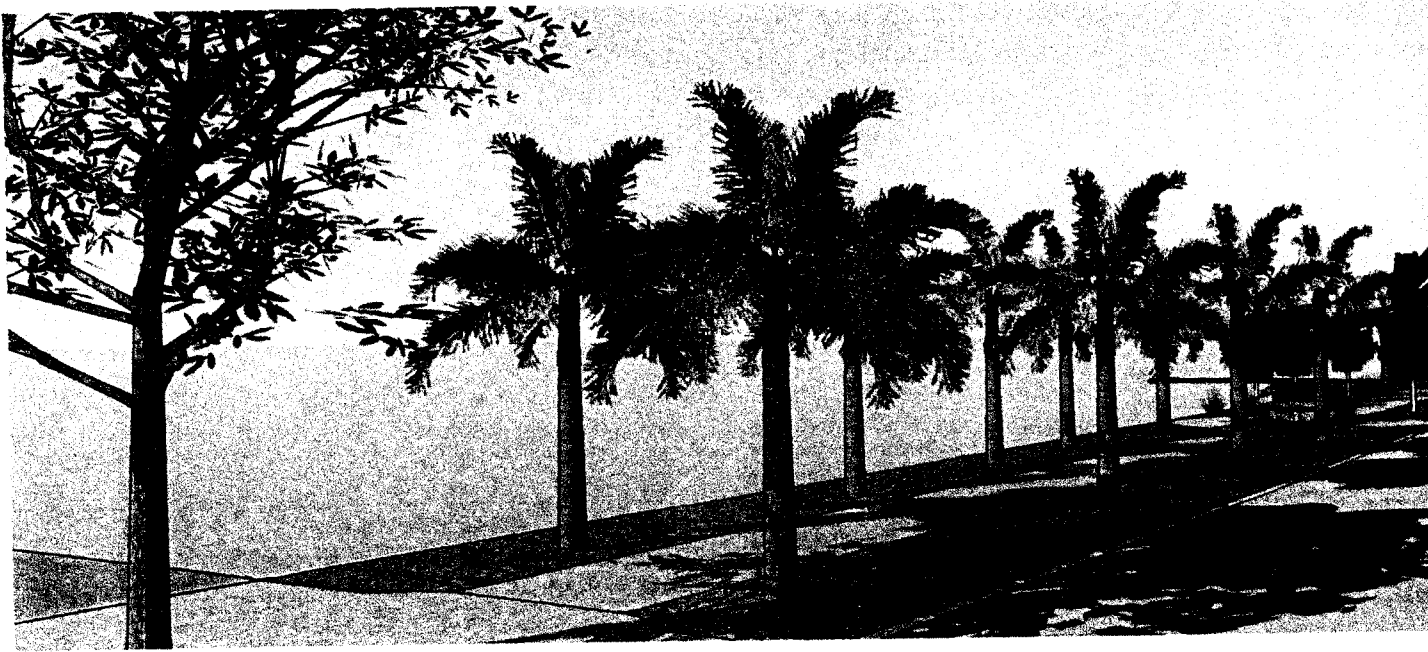
OCAMPO &
ASSOCIATES

ARCHITECTURE • LANDSCAPE ARCHITECTURE • INTERIORS
1001 N. W. 10th Avenue • Suite 100 • Fort Lauderdale, FL 33304

VIEW ISLA

BEAUTIFICATION OF
EL MAR LINDO
AT LAUDERDALE BY THE SEA

PROJECT NO. 1-09131
JULY, 2009



VIEW ISLAND #1

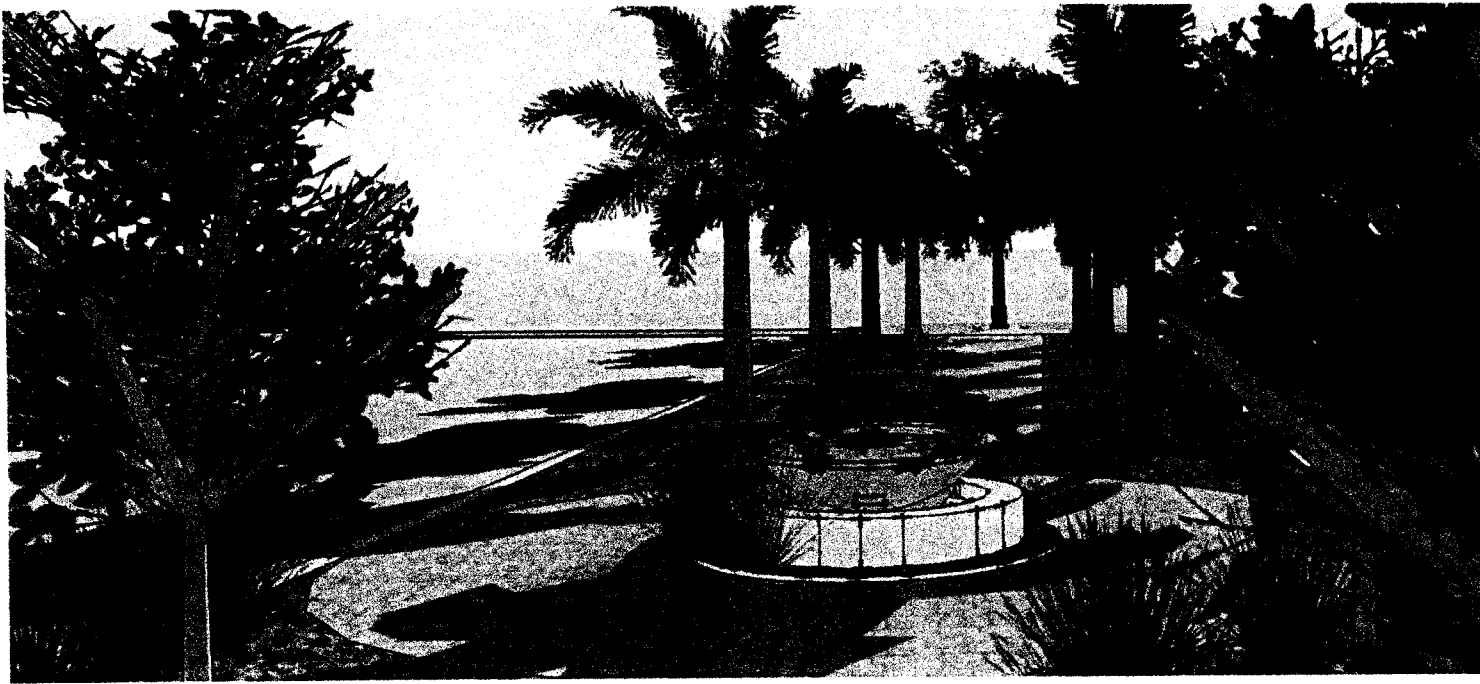


OCAMPO &
ASSOCIATES

ARCHITECTS • INTERIORS • LANDSCAPE ARCHITECTS
1100 N. W. 10th Avenue, Suite 1000, Fort Lauderdale, FL 33304

BEAUTIFICATION OF
EL BLANCO DRIVE
AT LAUDERDALE BY THE SEA

PROJECT No. 109131
JULY 2009



VIEW ISLAND

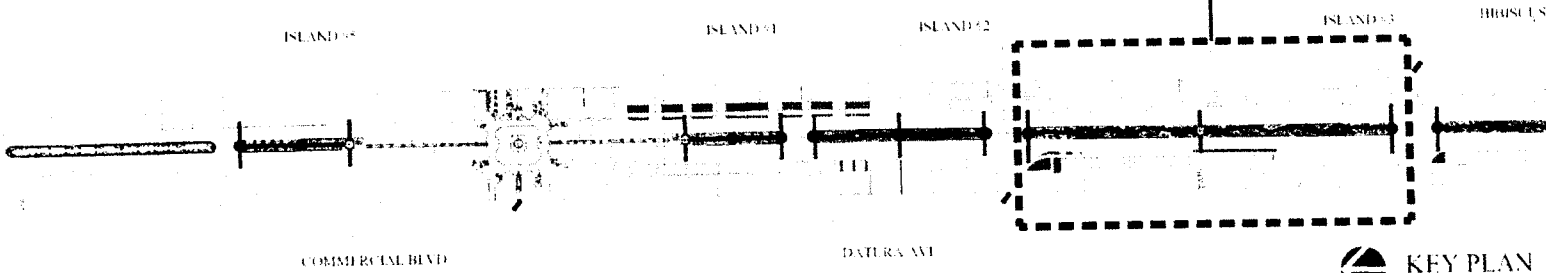
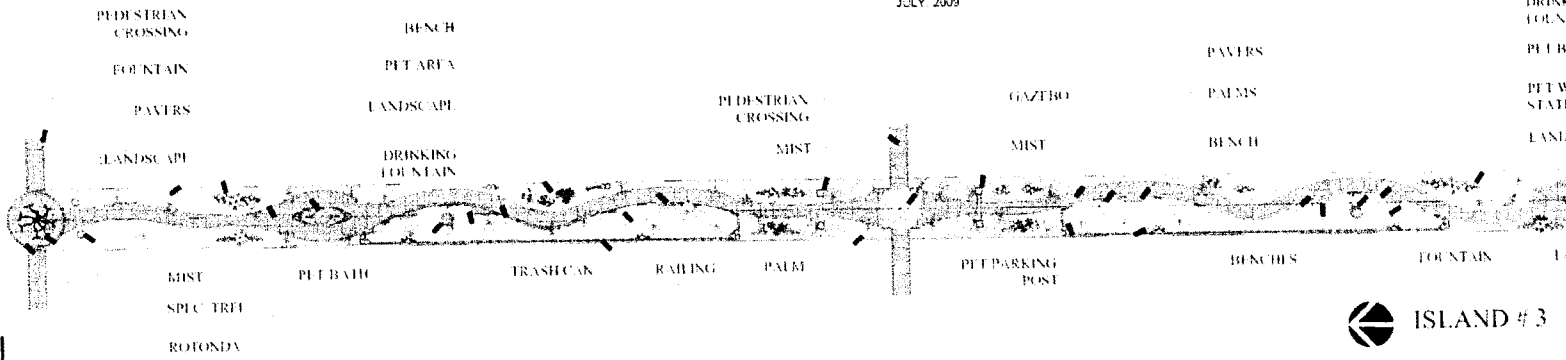


OCAMPO &
ASSOCIATES

ARCHITECTS, LANDSCAPE ARCHITECTS, INTERIORS
11111 W. BAYVIEW BLVD., SUITE 1000, MIAMI, FL 33147

BEAUTIFICATION OF BLVD 1100 AT LAUDERDALE BY THE SEA

PROJECT No 10913
JULY 2009

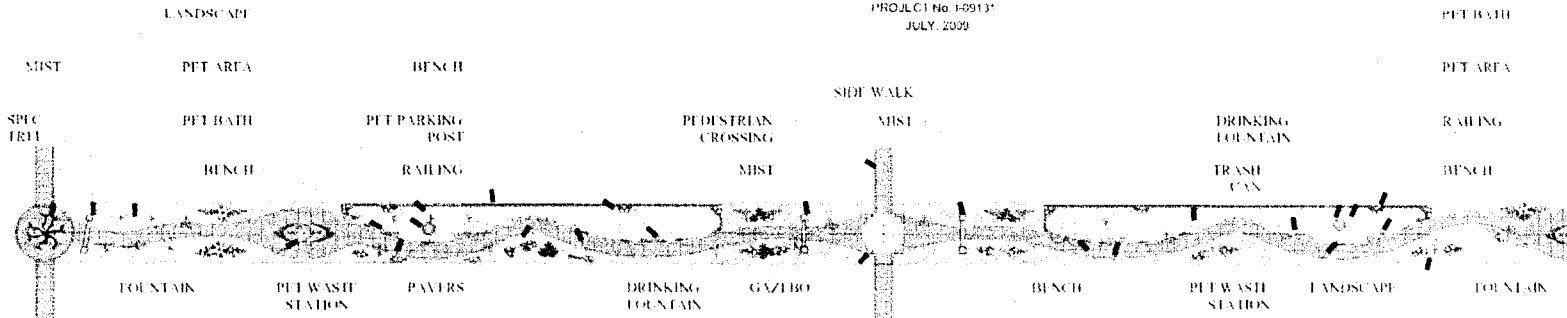


OCAMPO &
ASSOCIATES

ARCHITECTURAL, ENGINEERING, LANDSCAPE ARCHITECTURE
PLANNING AND MANAGEMENT SERVICES

BEAUTIFICATION OF EL MAR DRIVE AT LAUDERDALE BY THE SEA

PROJECT No. 149131
JULY, 2009



ISLAND # 4



KEY PLAN

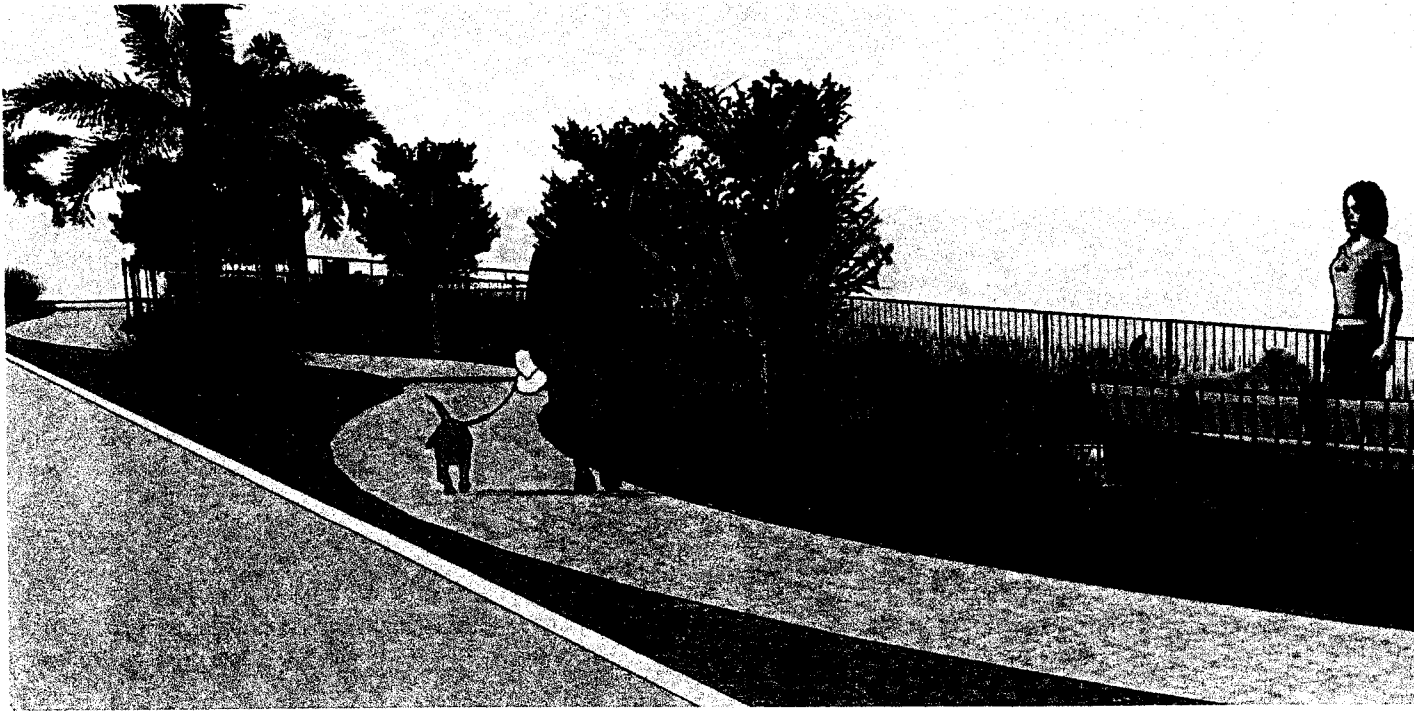


O CAMPO &
ASSOCIATES

ARCHITECTS • LANDSCAPE ARCHITECTS • PLANNERS
1000 N. W. 10TH AVENUE, SUITE 1000, MIAMI, FL 33136

BEAUTIFICATION OF
EL MAR DRIVE
AT LAUDERDALE BY THE SEA

PROJECT No. 1-09131
JULY, 2009



VIEW ISLAND

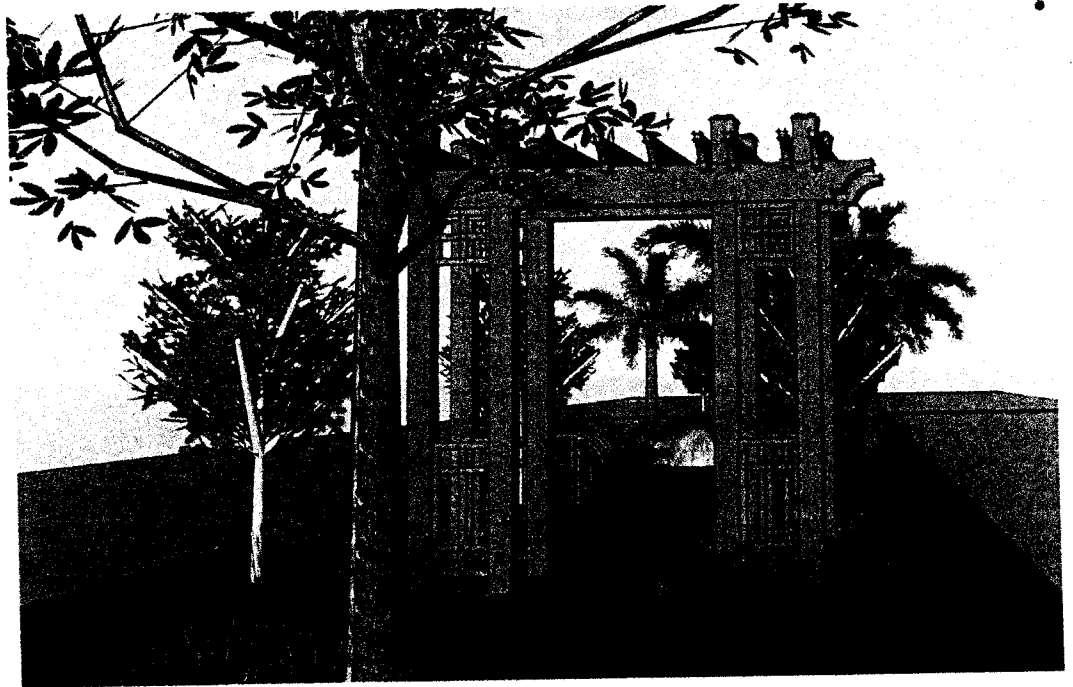


OCAMPO &
ASSOCIATES

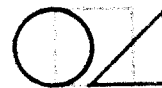
ARCHITECTS • URBAN DESIGN • PLANNING • INTERIOR
DESIGN • LANDSCAPE ARCHITECTURE • CIVIL ENGINEERING

BEAUTIFICATION OF
EL MAR DRIVE
AT LAUDERDALE BY THE SEA

PROJECT No. 109131
JULY 2009



VIEW ISLAND #2

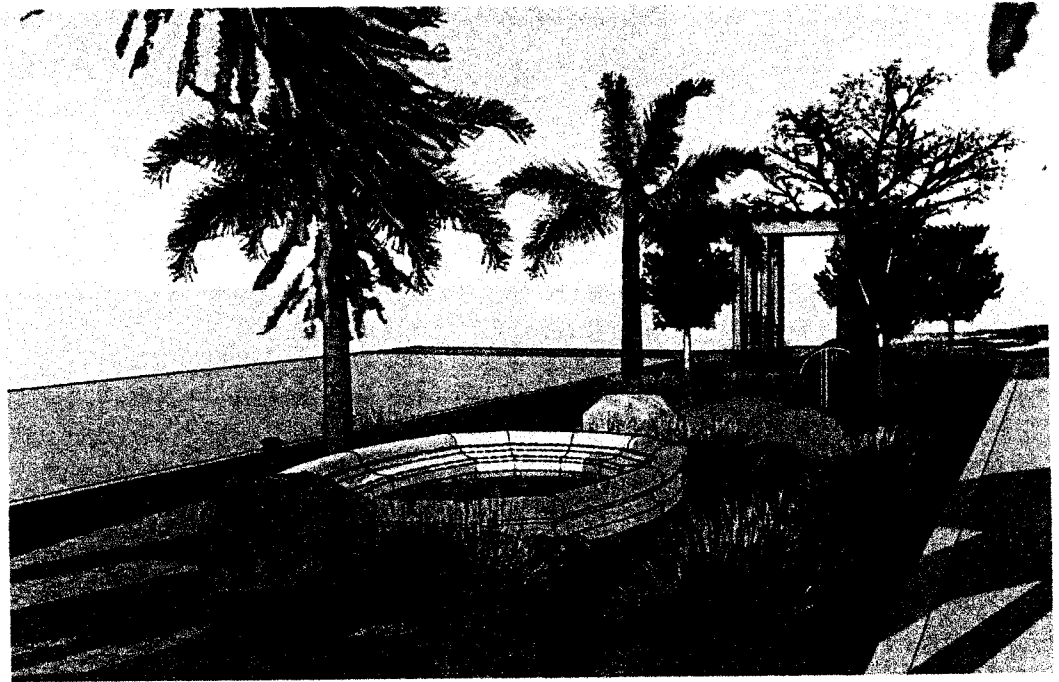


OCAMPO &
ASSOCIATES

ARCHITECTURE • INTERIOR DESIGN • LANDSCAPE ARCHITECTURE
10000 W. BAYVIEW BLVD., SUITE 1000, MIAMI, FL 33147
TEL: 305.555.1000 FAX: 305.555.1001

BEAUTIFICATION OF
EL MAE DRIVE
AT LAUDERDALE BY THE SEA

PROJECT No. 1-09131
JULY 2009



VIEW ISLAND #3

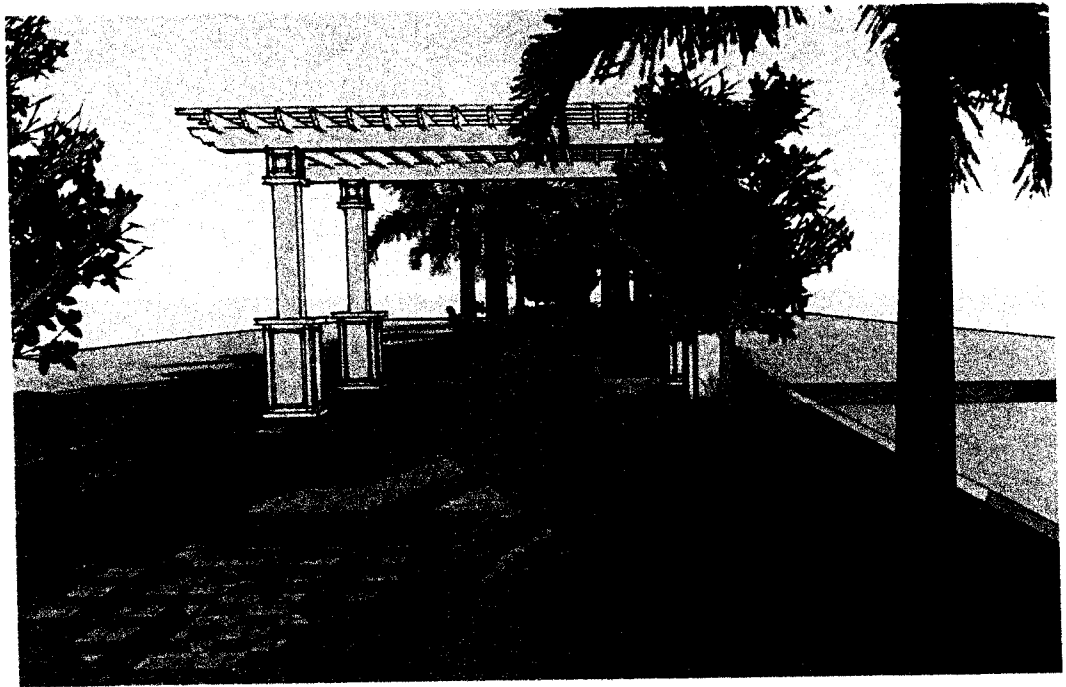


OCAMPO &
ASSOCIATES

ARCHITECTS PLANNERS ENGINEERS LANDSCAPE ARCHITECTS
1001 N. W. 10th Avenue, Suite 1000, Fort Lauderdale, FL 33304

BEAUTIFICATION OF
EL MAR DRIVE
AT LAUDERDALE BY THE SEA

PROJECT No 109131
JULY 2009



VIEW ISLAND #2



O CAMPO &
ASSOCIATES

ARCHITECTURE - INTERIOR DESIGN - PLANNING - LANDSCAPE
DESIGN - CONSTRUCTION - PROJECT MANAGEMENT

BEAUTIFICATION OF BLUE HORIZON DRIVE AT LAUDERDALE BY THE SEA

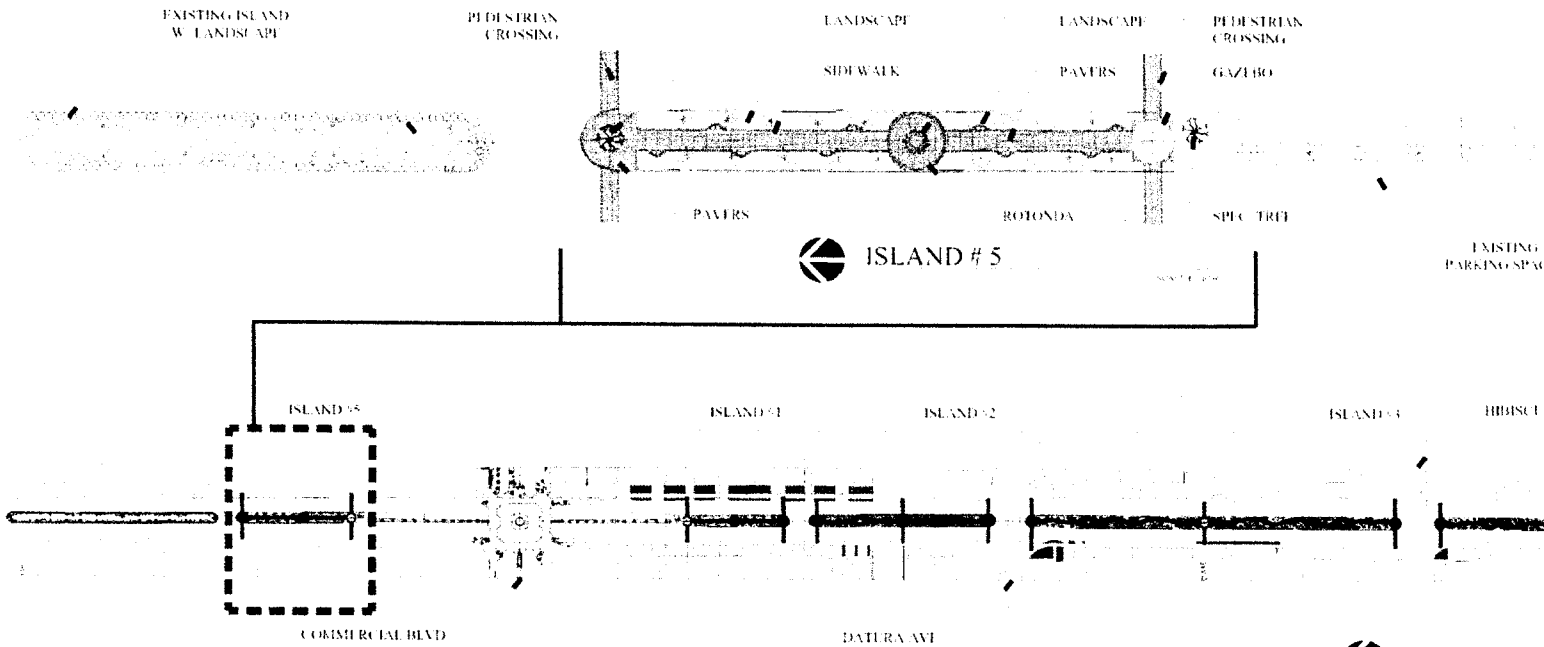
PROJECT No 14913
 JULY 2003

- | | |
|-----------|-----------|
| SPEC TREE | FOUNTAIN |
| LANDSCAPE | LANDSCAPE |
| SIDEWALK | PAVERS |
| PAVERS | ROTONDA |
| | SPEC TREE |



ISLAND # 5

EXISTING
 PARKING SPACE



COMMERCIAL BLVD

DATURA AV



KEY PLAN

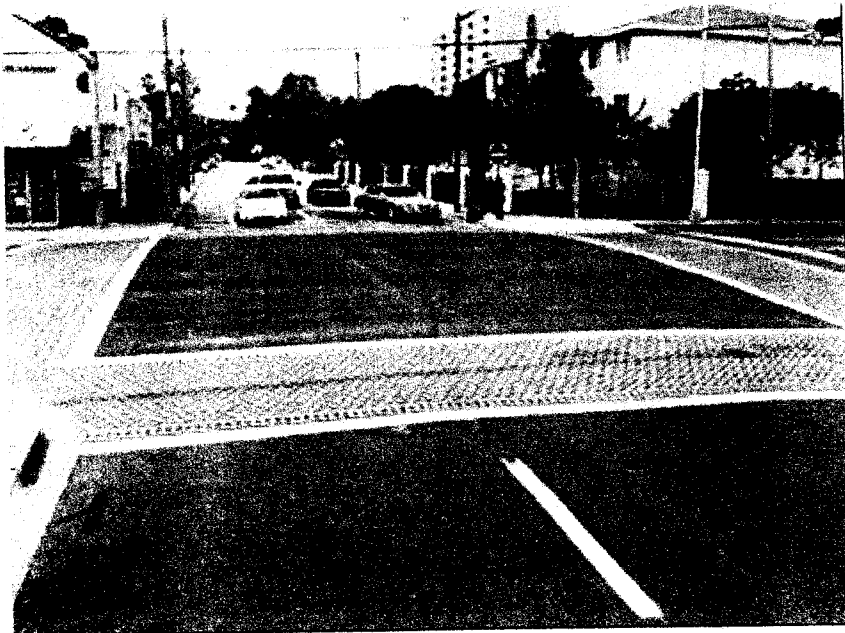


OCAMPO &
 ASSOCIATES

PROJECT NO. 14913, ORANGE COUNTY, FLORIDA
 1000 SOUTH ORANGE AVENUE, SUITE 100, ORANGE, FL 32668

REACTIFICATION OF
SL. LINK DRIVE
AT LAURELDALE BY THE SEA

PROJECT No. 1-09-31
JULY, 2009



STAMPED ASPHALT CROSSWALK



CONCRETE PAVEMENT

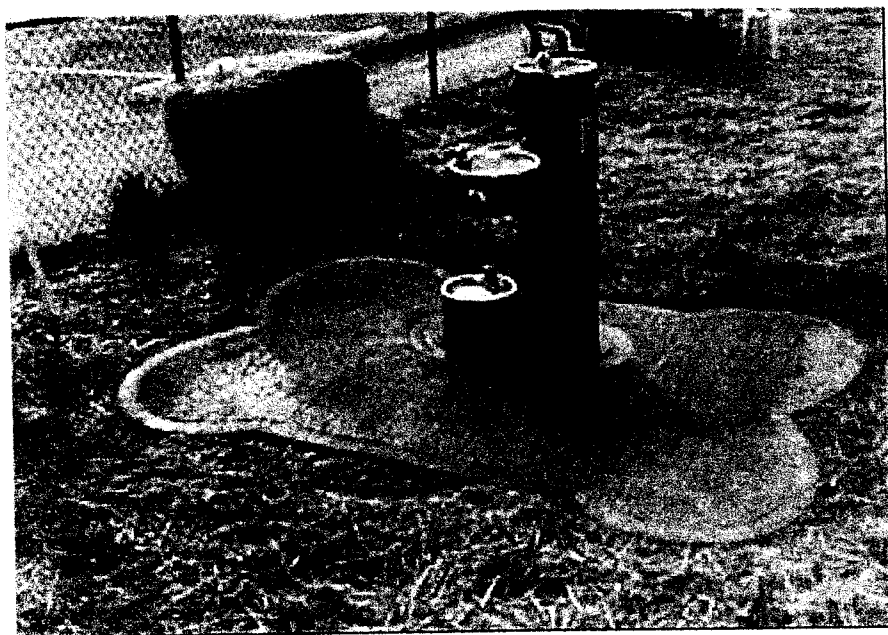


Ocampo &
Associates

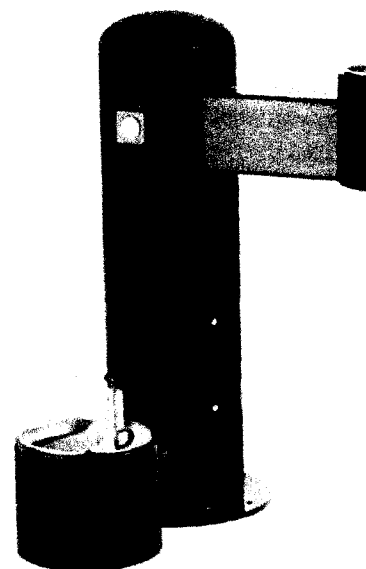
ARCHITECTS • LANDSCAPE ARCHITECTS • PLANNING • INTERIORS
11111 LAURELDALE BLVD. SUITE 100 LAURELDALE, CA 94043

BEAUTIFICATION OF
EL NIÑO TIEMPO
AT LAUDERDALE BY THE SEA

PROJECT NO. 1409-31
JULY 2009



DRINKING FOUNTAIN



DRINKING FOUNTAIN



Ocampo &
Associates

ARCHITECTS, PLANNERS, ENGINEERS, INTERIORS, LANDSCAPE ARCHITECTS
1111 N. W. 11th Avenue, Suite 1000, Fort Lauderdale, FL 33304
Phone: (954) 575-1111 Fax: (954) 575-1112

BEAUTIFICATION OF
EL MAR DRIVE
AT LAURELDALE BY THE SEA

PROJECT No. 109131
JULY 2009



RAILING

PET PA



OCAMPO &
ASSOCIATES

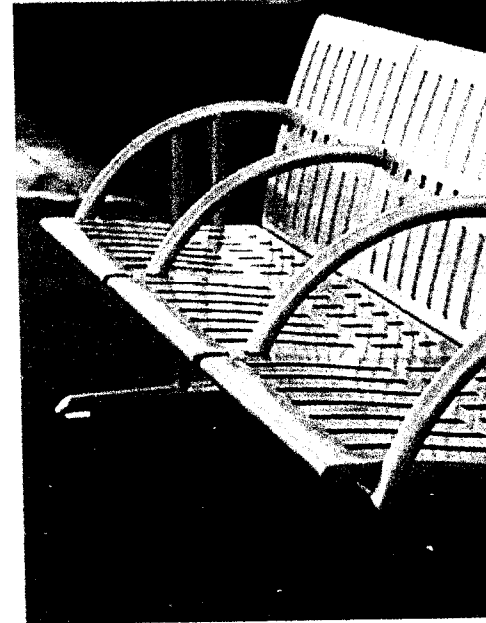
ARCHITECTS, ENGINEERS, PLANNERS, DESIGNERS
1000 AVENUE OF THE STARS, SUITE 1000, FORT MYERS, FL 33901

BEAUTIFICATION OF
EL MAR DRIVE
AT LAUDERDALE TO THE SEA

PROJECT No. L09131
JULY, 2009



PET BATH



BENCHES

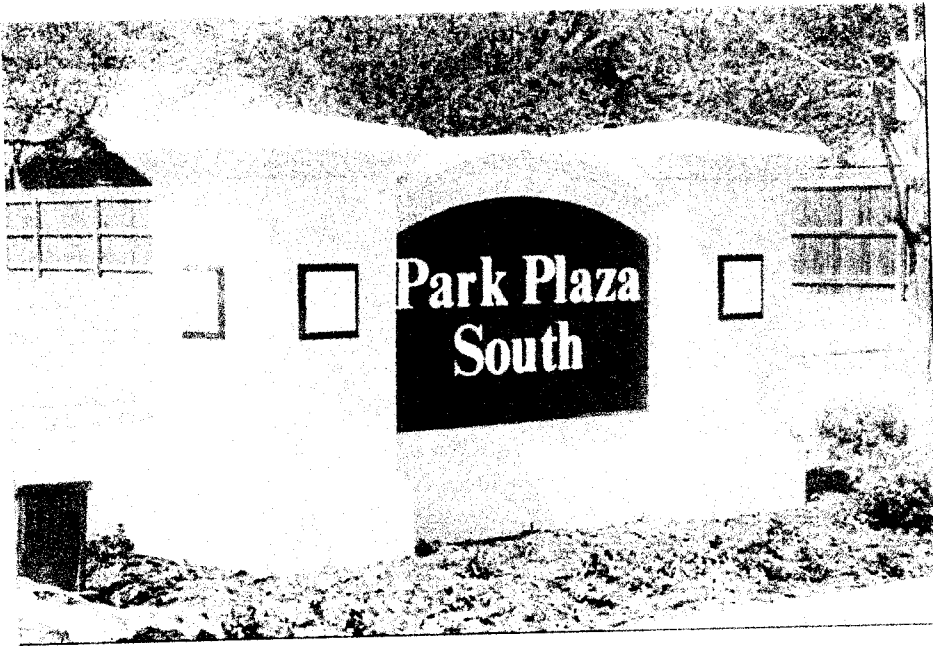


Ocampo &
Associates

ARCHITECTS PLANNERS ENGINEERS INTERIORS
LANDSCAPE ARCHITECTS

IDENTIFICATION OF
PUBLIC PLACES
AT LAUDERDALE BY THE SEA

PROJECT NO. 149131
JULY 2009



MONUMENT SIGN



SPRAY MIST TRELLIS

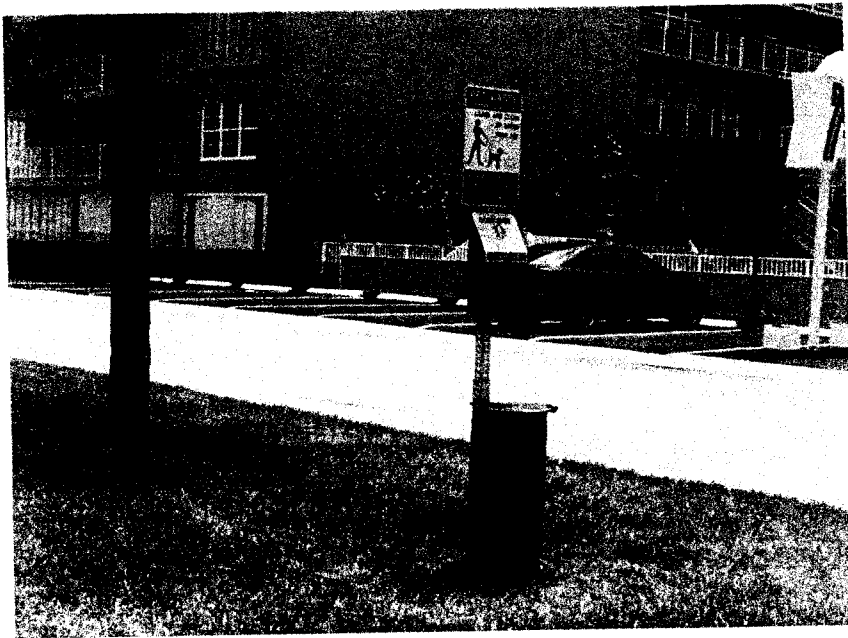


OCAMPO &
ASSOCIATES

LANDSCAPE ARCHITECTS
1001 N. W. 10th Ave., Suite 1000, Fort Lauderdale, FL 33311
TEL: 754.466.1111 FAX: 754.466.1112

BEAUTIFICATION OF
EL CERRILLO DRIVE
AT LAUDERDALE BY THE SEA

PROJECT No. 149731
JULY, 2009



PET WASTE STATION



SOLAR DOWN LIGHTS



OCAMPO &
ASSOCIATES

401 W. 1st St. Suite 100, Fort Lauderdale, FL 33301
Phone: 754.466.1111 Fax: 754.466.1112

BEAUTIFICATION OF EL MAR DRIVE AT LAUDERDALE BY THE SEA

PROJECT No. 149131
JULY 2009



PINE AVE

EL MAR DRIVE



COMMERCIAL
BLVD

PALM

EL MAR DRIVE

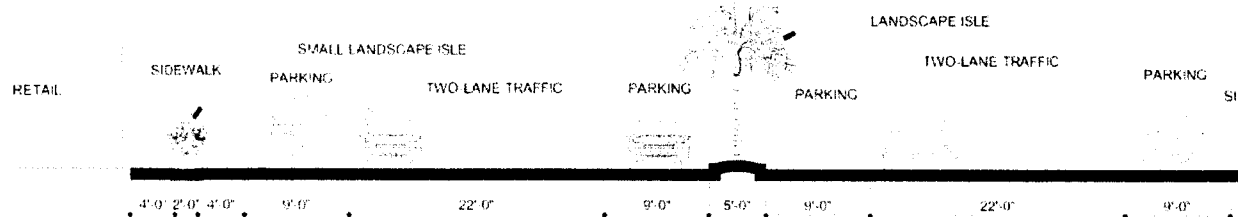


OCAMPO &
ASSOCIATES

ARCHITECTS, LANDSCAPE ARCHITECTS, PLANNERS
11111 W. BAYVIEW BLVD., SUITE 100, MIAMI, FL 33147

BEAUTIFICATION OF EL CAJON BLVD AT LA BERRAQUE BY THE SEA

PROJECT No. 1-00131
JULY, 2009



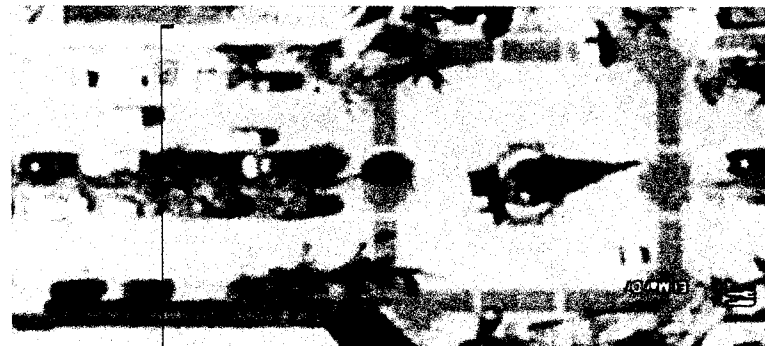
A CROSS SECTION OF RIGHT OF WAY NEAR COMMERCIAL BLVD.

SCALE: 1/4" = 1'-0"



STREET VIEW

SCALE: N.T.S.



CROSS SECTION MAP

SCALE: N.T.S.



OCAMPO &
ASSOCIATES

ARCHITECTURE, ENGINEERING, PLANNING, INTERIOR DESIGN, LANDSCAPE ARCHITECTURE, CIVIL ENGINEERING, SURVEYING, ENVIRONMENTAL SCIENCE

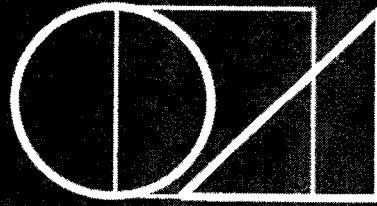
PROJECT NAME: BEAUTIFICATION OF EL MAR DRIVE
 PROJECT ADDRESS: LAUDERDALE BY THE SEA
 OWNER: TOWN OF LBTS
 DATE: 28-Jul-09
 ARCHITECT: OCAMPO & ASSOCIATES
 PM: EO

SF AC
 SITE: VARIES
 VALUE: VARIES

SUMMARY COSTS

COST/LF \$807.64
 COST/SF \$40.56
 \$1,000,000 1238 LF OF ISLANDS

ITEM DESCRIPTION	UNIT COST	ISLAND 1		ISLAND 2		ISLAND 3		ISLAND 4	
		QTY	COST	QTY	COST	QTY	COST	QTY	COST
100 PAVERS - W/ 10" AGGREGATE BASE	\$10 SF	1570	\$15,700	2,830	\$28,300	4,500	\$45,000	4,500	\$45,000
101 BENCHES	\$1,000 EA	3	\$3,000	6	\$6,000	6	\$6,000	6	\$6,000
102 TRELIS W/ COOL MIST SYSTEM	\$10,000 EA	0	\$0	2	\$20,000	4	\$40,000	4	\$40,000
103 DOGGY BATH/POOL	\$1,000 EA	0	\$0	0	\$0	2	\$2,000	2	\$2,000
104 DRINKING FOUNTAIN	\$1,200 EA	1	\$1,200	2	\$2,400	4	\$4,800	4	\$4,800
105 RAILING	\$35 LF	0	\$0	0	\$0	540	\$18,900	540	\$18,900
106 TURTLE LIGHTING	\$100 EA	20	\$2,000	40	\$4,000	80	\$8,000	80	\$8,000
107 LANDSCAPING									
108 TREES	\$200 EA	2	\$400	5	\$1,000	20	\$4,000	20	\$4,000
109 SHRUBS	\$20 LF	460	\$9,200	70	\$1,400	1,100	\$22,000	1,100	\$22,000
110 SOD & MULCH	\$1 SF	1890	\$2,363	2,840	\$3,550	6,470	\$8,088	6,470	\$8,088
111 TREE RELOCATION	\$800 EA	3	\$2,400	4	\$3,200	6	\$4,800	6	\$4,800
112 SCOOTER CHARGING STATION	\$16,000 EA	1	\$16,000	0	\$0	0	\$0	0	\$0
113 POWER SERVICE (200 AMP)	\$30,000 EA	0	\$0	1	\$30,000	0	\$0	0	\$0
114 WATER DISTRIBUTION	\$20 LF	185	\$3,700	250	\$5,000	600	\$12,000	600	\$12,000
115 MONUMENT SIGN	\$20,000 EA	0	\$0	0	\$0	0	\$0	0	\$0
116 CURBING	\$16 LF	400	\$6,400	630	\$10,080	1,250	\$20,000	1,250	\$20,000
117 WASTE CONTAINER (NORMAL)	\$1,000 EA	1	\$1,000	2	\$2,000	4	\$4,000	4	\$4,000
118 DOGGY WASTE CONTAINER	\$200 EA	1	\$200	2	\$400	4	\$800	4	\$800
119 DOGGY BAG DISPENSER	\$0	0	\$0	0	\$0	0	\$0	0	\$0
120 DOGGY TIE POLE	\$200 EA	1	\$200	2	\$400	4	\$800	4	\$800
121 DRAINAGE & EXFILTRATION TRENCHING	\$100 LF	185	\$18,500	300	\$30,000	602	\$60,200	602	\$60,200
122 IRRIGATION REDISTRIBUTION	\$20 HEAD	180	\$3,600	284	\$5,680	640	\$12,800	640	\$12,800
123 NOT USED									
124 RAMP W/DETECTABLE WARNING	\$650 EA	3	\$1,950	12	\$7,800	12	\$7,800	12	\$7,800
125 STAMPED ASPHALT	\$11 SF	720	\$7,920	1,020	\$11,220	1,100	\$12,100	1,100	\$12,100
126 FOUNTAIN FEATURE	\$5,000 EA	1	\$5,000	1	\$5,000	1	\$5,000	1	\$5,000
127 LANDSCAPE ROCK FEATURE	\$5,000 EA	0	\$0	1	\$5,000	1	\$5,000	1	\$5,000
128 SPECIMEN TREES	\$3,000 EA	1	\$3,000	2	\$6,000	2	\$6,000	2	\$6,000
129 SHADE STRUCTURE	\$20,000 EA	1	\$20,000	1	\$20,000	1	\$20,000	1	\$20,000
130 EXCAVATION & GRADING	\$2 SF	3650	\$6,388	5,990	\$10,483	12,170	\$21,298	12,170	\$21,298
131 PERMITS	\$0 OWNER		\$0	0	\$0	0	\$0	0	\$0
132 SURVEY & LAYOUT	\$20,000	0.10	\$2,000	0.20	\$4,000	0.25	\$5,000	0.25	\$5,000
133 SUBTOTAL			\$132,120		\$222,913		\$356,385		\$356,385
134 OVERHEAD & PROFIT	15.00%		\$19,818		\$33,437		\$53,458		\$53,458
135 DESIGN FEES (A-E-L)	12.00%		\$15,854		\$26,750		\$42,766		\$42,766
TOTALS			\$167,792		\$283,099		\$452,609		\$452,609
GRAND TOTAL			\$1,526,442						
TOTAL LF		2000							
TOTAL SF		20000							
TOTAL LINEAR FEET OF ALL ISLANDS			1890						
TOTAL SQUARE FEET OF ALL ISLANDS			37630						



OCAMPO & ASSOCIATES
ARCHITECTURE URBAN DESIGN PLANNING INTERIORS

Plantation, FL / Stuart, FL
954.424.3443 / 77.286.9004

"A MULTI-DISCIPLINARY"

APPROACH TO DESIGN

Prepared for:
TOWN OF LAUDERDALE BY THE SEA

BEAUTIFICATION
OF

EL MAR DRIVE

THE ARCHON PARTNERSHIP
 417 SW CALIFORNIA AVENUE STUART, FL 34994
 772.286.9004 954.424.3443

PROJECT NAME: BEAUTIFICATION OF EL MAR DRIVE
 PROJECT ADDRESS: LAUDERDALE BY THE SEA
 OWNER: TOWN OF LBTS
 DATE: 28-Jul-09
 ARCHITECT: OCAMPO & ASSOCIATES
 PM: EO

SF AC
 SITE: VARIES
 VALUE: VARIES
 SUMMARY COSTS
 COST/LF \$807.64
 COST/SF \$40.56
 \$1,000,000 1238 LF OF ISLANDS
 TOTAL PROJECT COST \$1,526,442

ITEM DESCRIPTION	UNIT COST		ISLAND 1		ISLAND 2		ISLAND 3		ISLAND 4		ISLAND 5	
			QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
100 PAVERS - W/ 10" AGGREGATE BASE	\$10 SF		1570	\$15,700	2,830	\$28,300	4,500	\$45,000	4,500	\$45,000	1570	\$15,700
101 BENCHES	\$1,000 EA		3	\$3,000	6	\$6,000	6	\$6,000	6	\$6,000	3	\$3,000
102 TRELLIS W/ COOL MIST SYSTEM	\$10,000 EA		0	\$0	2	\$20,000	4	\$40,000	4	\$40,000	0	\$0
103 DOGGY BATH/POOL	\$1,000 EA		0	\$0	0	\$0	2	\$2,000	2	\$2,000	0	\$0
104 DRINKING FOUNTAIN	\$1,200 EA		1	\$1,200	2	\$2,400	4	\$4,800	4	\$4,800	1	\$1,200
105 RAILING	\$35 LF		0	\$0	0	\$0	540	\$18,900	540	\$18,900	0	\$0
106 TURTLE LIGHTING	\$100 EA		20	\$2,000	40	\$4,000	80	\$8,000	80	\$8,000	20	\$2,000
107 LANDSCAPING												
108 TREES	\$200 EA		2	\$400	5	\$1,000	20	\$4,000	20	\$4,000	2	\$400
109 SHRUBS	\$20 LF		460	\$9,200	70	\$1,400	1,100	\$22,000	1,100	\$22,000	460	\$9,200
110 SOD & MULCH	\$1 SF		1890	\$2,363	2,840	\$3,550	6,470	\$8,088	6,470	\$8,088	1890	\$2,363
111 TREE RELOCATION	\$800 EA		3	\$2,400	4	\$3,200	6	\$4,800	6	\$4,800	3	\$2,400
112 SCOOTER CHARGING STATION	\$16,000 EA		1	\$16,000	0	\$0	0	\$0	0	\$0	1	\$16,000
113 POWER SERVICE (200 AMP)	\$30,000 EA		0	\$0	1	\$30,000	0	\$0	0	\$0	0	\$0
114 WATER DISTRIBUTION	\$20 LF		185	\$3,700	250	\$5,000	600	\$12,000	600	\$12,000	185	\$3,700
115 MONUMENT SIGN	\$20,000 EA		0	\$0	0	\$0	0	\$0	0	\$0	0	\$0
116 CURBING	\$16 LF		400	\$6,400	630	\$10,080	1,250	\$20,000	1,250	\$20,000	400	\$6,400
117 WASTE CONTAINER (NORMAL)	\$1,000 EA		1	\$1,000	2	\$2,000	4	\$4,000	4	\$4,000	1	\$1,000
118 DOGGY WASTE CONTAINER	\$200 EA		1	\$200	2	\$400	4	\$800	4	\$800	1	\$200
119 DOGGY BAG DISPENSER	\$0		0	\$0	0	\$0	0	\$0	0	\$0	0	\$0
120 DOGGY TIE POLE	\$200 EA		1	\$200	2	\$400	4	\$800	4	\$800	1	\$200
121 DRAINAGE & EXFILTRATION TRENCHING	\$100 LF		185	\$18,500	300	\$30,000	602	\$60,200	602	\$60,200	185	\$18,500
122 IRRIGATION REDISTRIBUTION	\$20 HEAD		180	\$3,600	284	\$5,680	640	\$12,800	640	\$12,800	180	\$3,600
123 NOT USED												
124 RAMP W/DETECTABLE WARNING	\$650 EA		3	\$1,950	12	\$7,800	12	\$7,800	12	\$7,800	3	\$1,950
125 STAMPED ASPHALT	\$11 SF		720	\$7,920	1,020	\$11,220	1,100	\$12,100	1,100	\$12,100	720	\$7,920
126 FOUNTAIN FEATURE	\$5,000 EA		1	\$5,000	1	\$5,000	1	\$5,000	1	\$5,000	1	\$5,000
127 LANDSCAPE ROCK FEATURE	\$5,000 EA		0	\$0	1	\$5,000	1	\$5,000	1	\$5,000	0	\$0
128 SPECIMEN TREES	\$3,000 EA		1	\$3,000	2	\$6,000	2	\$6,000	2	\$6,000	1	\$3,000
129 SHADE STRUCTURE	\$20,000 EA		1	\$20,000	1	\$20,000	1	\$20,000	1	\$20,000	1	\$20,000
130 EXCAVATION & GRADING	\$2 SF		3650	\$6,388	5,990	\$10,483	12,170	\$21,298	12,170	\$21,298	3650	\$6,388
131 PERMITS	\$0 OWNER			\$0	0	\$0	0	\$0	0	\$0		\$0
132 SURVEY & LAYOUT	\$20,000		0.10	\$2,000	0.20	\$4,000	0.25	\$5,000	0.25	\$5,000	0.20	\$4,000
133												
134 OVERHEAD & PROFIT	15.00%			\$19,818		\$33,437		\$53,458		\$53,458		\$33,437
135 DESIGN FEES (A-E-L)	12.00%			\$15,854		\$26,750		\$42,766		\$42,766		\$26,750
TOTALS				\$167,792		\$283,099		\$452,609		\$452,609		\$283,099
GRAND TOTAL				\$1,526,442								
TOTAL LF	2000											
TOTAL SF	20000											
TOTAL LINEAR FEET OF ALL ISLANDS				1890								
TOTAL SQUARE FEET OF ALL ISLANDS				37630								

NOTES:

A #132 (A-E-L)=ARCHITECTURE ENGINEERING & LANDSCAPE DESIGN FEES

B

C

D

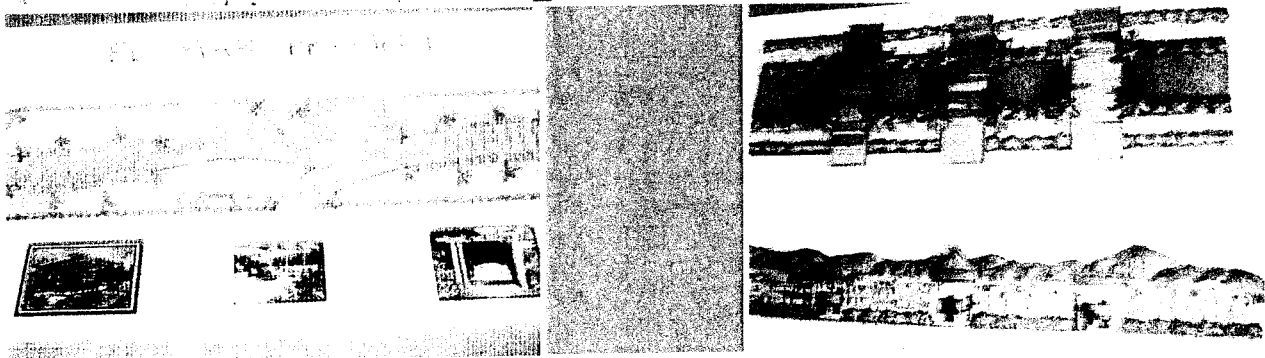
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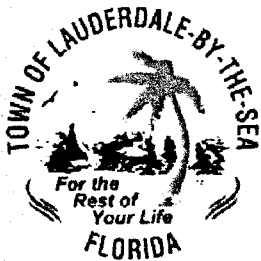
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CHEN & ASSOCIATES

Budget for two lane roadway design alternative
EL MAR DRIVE REDEVELOPMENT



Submitted to:



Submitted by:





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Background

El Mar Drive is located in the Town of Lauderdale By-The-Sea between State Road A1A and the ocean from Palm Avenue to Pine Avenue. This existing roadway is 4800 feet long (.9 miles) and sits in an 80 foot Town owned right-of-way. The existing roadway is primarily 2 lanes in each direction but merges to one lane in both directions approximately 200 feet before Anglin Square, as well as in front of the newly completed Oriana development.

Chen and Associates (C&A) has been tasked with completing budget estimates for the Commission's consideration in regards to the redevelopment of El Mar Drive. The plan C&A used to create these budgets was based on the three highest scoring student projects and is included at the end of this text. C&A also made the assumption that the limits of the center median area would remain at 20' wide.

C&A prepared a number of cost estimates, all of which are included at the end of this text; however, the important numbers will be highlighted throughout this summary. C&A also considered the \$1 million available for the beautification of El Mar Drive when creating the different phasing options.

Phasing Options

C&A has phased this project assuming two different construction scenarios. The first manor of phasing was to look at redeveloping the center median areas ONLY. Please keep in mind that this is only a conceptual budget and costs for individual items can greatly differ depending on material type, style, etc. This scenario assumes the following, which are based off of the student projects:

- Winding path down the center median area
- Landscaping throughout the entire project area
- Bollard type lighting in the center median area only
- Shade structures located within each landscape island
- A signature piece of art in each landscape Island

These estimates were completed for all of El Mar Drive and then broken up for the north half of the road (Commercial Blvd. to Pine Ave) and the south half of the road (Palm Avenue to Commercial Blvd.)

C&A also considered the complete redevelopment of El Mar Drive from the edge of the right-of-way to the edge of the right-of-way. Please keep in mind that this is only a conceptual budget and costs for individual items can greatly differ depending on material type, style, etc. This scenario assumes the following, which are based off the student projects and roadway cross sections from previous Town Master Plans and projects:

- 6' sidewalks (no trees in sidewalk)
- 2- 11' travel lanes in each direction
- New drainage system
- Replacement of Town Owned Sewer (Palm Ave. to Commercial Blvd. only)
- Winding path down the center median area
- Landscaping throughout the entire project area
- Bollard type lighting in the center median area only
- Shade structures located within each landscape island
- A signature piece of art in each landscape Island



Budget Costs

The following is a summary of the budgets completed for this project broken up by the different phasing options. This list will start with the budget for all of El Mar and will be broken down from there by the different phasing options.

Reconstruct the Entire Right-of-Way (ROW)		
Reconstruct the entire ROW from Palm to Pine		\$4,511,450
	Reconstruct the entire ROW from Palm to Commercial	\$2,249,069
	Reconstruct the entire ROW from Palm to Hibiscus	\$834,371
	Reconstruct the entire ROW from Hibiscus to Datura	\$796,842
	Reconstruct the entire ROW from Datura to Commercial	\$619,316
	Re construct the entire ROW from Commercial to Pine	\$2,253,491
	Reconstruct the entire ROW from Hibiscus to Datura	\$1,261,033
	Reconstruct the entire ROW from Datura to Commercial	\$992,458

Reconstruct the Center Median Only		
Reconstruct median only from Palm to Pine		\$2,326,172
	Reconstruct median only from Palm to Commercial	\$980,497
	Reconstruct median only from Palm to Hibiscus	\$356,981
	Reconstruct median only from Hibiscus to Datura	\$369,664
	Reconstruct median only from Datura to Commercial	\$283,333
	Reconstruct median only from Commercial to Pine	\$1,336,803
	Reconstruct median only from Hibiscus to Datura	\$798,060
	Reconstruct median only from Datura to Commercial	\$463,051

Conclusion

Chen and Associates (C&A) has been tasked with completing budget estimates for the Commission's consideration in regards to the redevelopment of El Mar Drive. These budget numbers were based on a conceptual plan that was created based off portions of the three winning student design projects as well as previously approved roadway cross sections. Considering that the Town has \$1 million available for the beautification of El Mar Drive, which is dedicated for the south half of the roadway only, Chen and Associates recommends proceeding with detailed design and construction of the median only from Palm Avenue to Commercial Blvd.

PRELIMINARY ENGINEER'S OPINION OF
PROBABLE CONSTRUCTION COST

Chen No. 120.001

Phase: Preliminary Design Evaluation

By: SB



El Mar Drive Cost Alternatives
Entire ROW - Palm Ave to Pine Ave.
Submitted July 24th, 2009
by Chen and Associates

Item No.	Description	Qty	Unit	Unit Price	Extended Price
Design					
1	Design Phase Services*	1	LS		\$ 532,068.38
General					
2	Mobilization & MOT (12% Total Construction Value)	1	LS		\$ 425,654.70
Hardscaping / Furniture					
3	Remove Existing Brick Wall	10	LS	\$ 1,000.00	\$ 10,000.00
4	6' Colored Concrete Walkway**	4,000	LF	\$ 35.00	\$ 140,000.00
5	Pergola (Shade Structure)	24	EA	\$ 25,000.00	\$ 600,000.00
6	Bench Seat	48	EA	\$ 350.00	\$ 16,800.00
7	Trash Can	24	EA	\$ 300.00	\$ 7,200.00
8	Statue / Art Piece(s)	6	EA	\$ 25,000.00	\$ 150,000.00
9	New / Relocate Existing Pet Waste Stations	14	EA	\$ 100.00	\$ 1,400.00
Landscaping					
10	Relocate Existing Trees	261	EA	\$ 300.00	\$ 78,300.00
11	Relocate Existing Shrub/Plants	398	EA	\$ 300.00	\$ 119,400.00
12	Field Grown Palm Trees (12'-14' zeriscapae, low maint)	205	EA	\$ 1,350.00	\$ 276,750.00
13	Field Grown Shade Trees (zeriscapae, low maint)	165	EA	\$ 650.00	\$ 107,250.00
14	Shrubbery / Bushes (zeriscapae, low maint)	3,500	EA	\$ 13.00	\$ 45,500.00
15	Ground Cover (zeriscapae, low maint)	2,550	EA	\$ 8.00	\$ 20,400.00
16	Sod	2,532	SY	\$ 9.00	\$ 22,788.00
17	Earthwork/Regrading	1,551	CY	\$ 2.75	\$ 4,265.25
Miscellaneous					
18	Relocate Irrigation System Controls and Piping	5	LS	\$ 5,000.00	\$ 25,000.00
19	Lighting	107	EA	\$ 2,750.00	\$ 294,250.00
Roadway / Sidewalk					
20	Remove Existing Sidewalk	7,400	LF	\$ 6.00	\$ 44,400.00
21	8' Colored Concrete Sidewalk	7,400	LF	\$ 48.00	\$ 355,200.00
22	2' Curb and Gutter	7,400	LF	\$ 7.00	\$ 51,800.00
23	ADA Ramps	56	EA	\$ 250.00	\$ 14,000.00
24	Roadway Resurfacing	18,150	SY	\$ 7.50	\$ 136,125.00
25	Striping and Signage	1	LS	\$ 42,106.75	\$ 42,106.75
Drainage					
26	Catch Basin	41	EA	\$ 3,500.00	\$ 143,500.00
27	Drainage Pipe	5,050	LF	\$ 45.00	\$ 227,250.00
28	Exfiltration Trench	1,725	LF	\$ 150.00	\$ 258,750.00
28	Yard Drain	41	EA	\$ 1,200.00	\$ 49,200.00
29	Remove Existing Drainage System	6,775	LS	\$ 7.50	\$ 50,812.50
Sewer Replacement					
30	8" PVC Sewer Pipe	1,950	LF	\$ 50.00	\$ 97,500.00
31	Laterals (Short)	24	EA	\$ 1,100.00	\$ 26,400.00
32	Laterals (Long)	14	EA	\$ 1,500.00	\$ 21,000.00
33	Maintenance Access Structures	14	EA	\$ 3,100.00	\$ 43,400.00
34	Roadway Restoration	1,475	SY	\$ 45.00	\$ 66,375.00
Total:					\$ 4,504,846

* Includes Landscape Architect and Certified Arborist, Civil and Structural Engineering Design, Construction Inspection, Permitting, Permit fees
** See Alternate Walkway Options for Additional Materials and their Costs

PRELIMINARY ENGINEER'S OPINION OF
PROBABLE CONSTRUCTION COST

Chen No: 120.001

Phase: Preliminary Design Evaluation

By: SB



El Mar Drive Cost Alternatives
Entire ROW - Palm Ave to Commercial Blvd.
Submitted July 24th, 2009
by Chen and Associates

Item No.	Description	Qty	Unit	Unit Price	Extended Price
Design					
1	Design Phase Services*	1	LS		\$ 264,858.08
General					
2	Mobilization & MOT (12% Total Construction Value)	1	LS		\$ 211,886.46
Landscaping / Furniture					
3	Remove Existing Brick Wall	5	LS	\$ 1,000.00	\$ 5,000.00
4	6' Colored Concrete Walkway**	1,850	LF	\$ 35.00	\$ 64,750.00
5	Pergola (Shade Structure)	11	EA	\$ 25,000.00	\$ 275,000.00
6	Bench Seat	22	EA	\$ 350.00	\$ 7,700.00
7	Trash Can	11	EA	\$ 300.00	\$ 3,300.00
8	Statue / Art Piece(s)	3	EA	\$ 25,000.00	\$ 75,000.00
9	New / Relocate Existing Pet Waste Stations	6	EA	\$ 100.00	\$ 600.00
Landscaping					
10	Relocate Existing Trees	69	EA	\$ 300.00	\$ 20,700.00
11	Relocate Existing Shrub/Plants	89	EA	\$ 300.00	\$ 26,700.00
12	Field Grown Palm Trees (12'-14' zeriscapae, low maint)	75	EA	\$ 1,350.00	\$ 101,250.00
13	Field Grown Shade Trees (zeriscapae, low maint)	70	EA	\$ 650.00	\$ 45,500.00
14	Shrubbery / Bushes (zeriscapae, low maint)	2,600	EA	\$ 13.00	\$ 33,800.00
15	Ground Cover (zeriscapae, low maint)	1,800	EA	\$ 8.00	\$ 14,400.00
16	Sod	1,532	SY	\$ 9.00	\$ 13,788.00
17	Earthwork/Regrading	1,350	CY	\$ 2.75	\$ 3,712.50
Miscellaneous					
19	Relocate Irrigation System Controls and Piping	3	LS	\$ 5,000.00	\$ 15,000.00
19	Lighting	42	EA	\$ 2,750.00	\$ 115,500.00
Roadway / Sidewalk					
20	Remove Existing Sidewalk	3,500	LF	\$ 6.00	\$ 21,000.00
21	8' Colored Concrete Sidewalk	3,500	LF	\$ 48.00	\$ 168,000.00
22	2' Curb and Gutter	3,500	LF	\$ 7.00	\$ 24,500.00
23	ADA Ramps	34	EA	\$ 250.00	\$ 8,500.00
24	Roadway Resurfacing	8,700	SY	\$ 7.50	\$ 65,250.00
25	Striping and Signage	1	LS	\$ 20,107.50	\$ 20,107.50
Drainage					
26	Catch Basin	19	EA	\$ 3,500.00	\$ 66,500.00
27	Drainage Pipe	2,800	LF	\$ 45.00	\$ 126,000.00
28	Exfiltration Trench	925	LF	\$ 150.00	\$ 138,750.00
28	Yard Drain	19	EA	\$ 1,200.00	\$ 22,800.00
29	Remove Existing Drainage System	3,725	LS	\$ 7.50	\$ 27,937.50
Sewer Replacement					
30	8" PVC Sewer Pipe	1,950	LF	\$ 50.00	\$ 97,500.00
31	Laterals (Short)	24	EA	\$ 1,100.00	\$ 26,400.00
32	Laterals (Long)	14	EA	\$ 1,500.00	\$ 21,000.00
33	Maintenance Access Structures	14	EA	\$ 3,100.00	\$ 43,400.00
34	Roadway Restoration	1,475	SY	\$ 45.00	\$ 66,375.00
Total:					\$ 2,242,465

- * Includes Landscape Architect and Certified Arborist, Civil and Structural Engineering Design, Construction Inspection, Permitting, Permit fees
 ** See Alternate Walkway Options for Additional Materials and their Costs

PRELIMINARY ENGINEER'S OPINION OF
PROBABLE CONSTRUCTION COST

Chen No: 120.001

Phase: Preliminary Design Evaluation

By: SB



EI Mar Drive Cost Alternatives
Entire ROW - Palm Ave to Hibiscus Ave
Submitted July 24th, 2009
by Chen and Associates

Item No.	Description	Qty	Unit	Unit Price	Extended Price
Design					
1	Design Phase Services*	1	LS		\$ 98,157.75
General					
2	Mobilization & MOT (12% Total Construction Value)	1	LS		\$ 78,526.20
Hardscaping / Furniture					
3	Remove Existing Brick Wall	2	LS	\$ 1,000.00	\$ 2,000.00
4	6" Colored Concrete Walkway**	650	LF	\$ 35.00	\$ 22,750.00
5	Pergola (Shade Structure)	4	EA	\$ 25,000.00	\$ 100,000.00
6	Bench Seat	8	EA	\$ 350.00	\$ 2,800.00
7	Trash Can	4	EA	\$ 300.00	\$ 1,200.00
8	Statue / Art Piece(s)	1	EA	\$ 25,000.00	\$ 25,000.00
9	New / Relocate Existing Pet Waste Stations	2	EA	\$ 100.00	\$ 200.00
Landscaping					
10	Relocate Existing Trees	18	EA	\$ 300.00	\$ 5,400.00
11	Relocate Existing Shrub/Plants	7	EA	\$ 300.00	\$ 2,100.00
12	Field Grown Palm Trees (12'-14' zeriscapae, low maint)	30	EA	\$ 1,350.00	\$ 40,500.00
13	Field Grown Shade Trees (zeriscapae, low maint)	30	EA	\$ 650.00	\$ 19,500.00
14	Shrubbery / Bushes (zeriscapae, low maint)	1,000	EA	\$ 13.00	\$ 13,000.00
15	Ground Cover (zeriscapae, low maint)	750	EA	\$ 8.00	\$ 6,000.00
16	Sod	666	SY	\$ 9.00	\$ 5,994.00
17	Earthwork/Regrading	600	CY	\$ 2.75	\$ 1,650.00
Miscellaneous					
18	Relocate Irrigation System Controls and Piping	1	LS	\$ 5,000.00	\$ 5,000.00
19	Lighting	15	EA	\$ 2,750.00	\$ 41,250.00
Roadway / Sidewalk					
20	Remove Existing Sidewalk	1,300	LF	\$ 6.00	\$ 7,800.00
21	8" Colored Concrete Sidewalk	1,300	LF	\$ 48.00	\$ 62,400.00
22	2" Curb and Gutter	1,300	LF	\$ 7.00	\$ 9,100.00
23	ADA Ramps	12	EA	\$ 250.00	\$ 3,000.00
24	Roadway Resurfacing	3,200	SY	\$ 7.50	\$ 24,000.00
25	Striping and Signage	1	LS	\$ 7,441.00	\$ 7,441.00
Drainage					
26	Catch Basin	8	EA	\$ 3,500.00	\$ 28,000.00
27	Drainage Pipe	1,000	LF	\$ 45.00	\$ 45,000.00
28	Exfiltration Trench	450	LF	\$ 150.00	\$ 67,500.00
28	Yard Drain	8	EA	\$ 1,200.00	\$ 9,600.00
29	Remove Existing Drainage System	1,450	LF	\$ 7.50	\$ 10,875.00
Sewer Replacement					
30	8" PVC Sewer Pipe	650	LF	\$ 60.00	\$ 39,000.00
31	Laterals (Short)	3	EA	\$ 1,400.00	\$ 4,200.00
32	Laterals (Long)	3	EA	\$ 1,750.00	\$ 5,250.00
33	Maintenance Access Structures	5	EA	\$ 3,100.00	\$ 15,500.00
34	Roadway Restoration	475	SY	\$ 45.00	\$ 21,375.00
Total:					\$ 831,069

* Includes Landscape Architect and Certified Arborist, Civil and Structural Engineering Design, Construction Inspection, Permitting, Permit fees

** See Alternate Walkway Options for Additional Materials and their Costs

PRELIMINARY ENGINEER'S OPINION OF
PROBABLE CONSTRUCTION COST

Chen No: 120.001
Phase: Preliminary Design Evaluation
By: SB



El Mar Drive Cost Alternatives
Entire ROW - Hibiscus Ave to Datura Ave
Submitted July 24th, 2009
by Chen and Associates

Item No.	Description	Qty	Unit	Unit Price	Extended Price
Design					
1	Design Phase Services*	1	LS		\$ 93,725.25
General					
2	Mobilization & MOT (12% Total Construction Value)	1	LS		\$ 74,980.20
Hardscaping / Furniture					
3	Remove Existing Brick Wall	1	LS	\$ 1,000.00	\$ 1,000.00
4	6' Colored Concrete Walkway**	650	LF	\$ 35.00	\$ 22,750.00
5	Pergola (Shade Structure)	4	EA	\$ 25,000.00	\$ 100,000.00
6	Bench Seat	8	EA	\$ 350.00	\$ 2,800.00
7	Trash Can	4	EA	\$ 300.00	\$ 1,200.00
8	Statue / Art Piece(s)	1	EA	\$ 25,000.00	\$ 25,000.00
9	New / Relocate Existing Pet Waste Stations	2	EA	\$ 100.00	\$ 200.00
Landscaping					
10	Relocate Existing Trees	31	EA	\$ 300.00	\$ 9,300.00
11	Relocate Existing Shrub/Plants	7	EA	\$ 300.00	\$ 2,100.00
12	Field Grown Palm Trees (12'-14' zeriscapae, low maint)	30	EA	\$ 1,350.00	\$ 40,500.00
13	Field Grown Shade Trees (zeriscapae, low maint)	30	EA	\$ 650.00	\$ 19,500.00
14	Shrubbery / Bushes (zeriscapae, low maint)	1,000	EA	\$ 13.00	\$ 13,000.00
15	Ground Cover (zeriscapae, low maint)	750	EA	\$ 8.00	\$ 6,000.00
16	Sod	666	SY	\$ 9.00	\$ 5,994.00
17	Earthwork/Regrading	600	CY	\$ 2.75	\$ 1,650.00
Miscellaneous					
18	Relocate Irrigation System Controls and Piping	1	LS	\$ 1,500.00	\$ 1,500.00
19	Lighting	15	EA	\$ 2,750.00	\$ 41,250.00
Roadway / Sidewalk					
20	Remove Existing Sidewalk	1,300	LF	\$ 6.00	\$ 7,800.00
21	8' Colored Concrete Sidewalk	1,300	LF	\$ 48.00	\$ 62,400.00
22	2' Curb and Gutter	1,300	LF	\$ 7.00	\$ 9,100.00
23	ADA Ramps	12	EA	\$ 250.00	\$ 3,000.00
24	Roadway Resurfacing	3,200	SY	\$ 7.50	\$ 24,000.00
25	Striping and Signage	1	LS	\$ 7,441.00	\$ 7,441.00
Drainage					
26	Catch Basin	6	EA	\$ 3,500.00	\$ 21,000.00
27	Drainage Pipe	1,000	LF	\$ 45.00	\$ 45,000.00
28	Exfiltration Trench	300	LF	\$ 150.00	\$ 45,000.00
28	Yard Drain	6	EA	\$ 1,200.00	\$ 7,200.00
29	Remove Existing Drainage System	1,300	LF	\$ 7.50	\$ 9,750.00
Sewer Replacement					
30	8" PVC Sewer Pipe	650	LF	\$ 50.00	\$ 32,500.00
31	Laterals (Short)	9	EA	\$ 1,100.00	\$ 9,900.00
32	Laterals (Long)	6	EA	\$ 1,500.00	\$ 9,000.00
33	Maintenance Access Structures	5	EA	\$ 3,100.00	\$ 15,500.00
34	Roadway Restoration	500	SY	\$ 45.00	\$ 22,500.00
Total:					\$ 793,540

- * Includes Landscape Architect and Certified Arborist, Civil and Structural Engineering Design, Construction Inspection, Permitting, Permit fees
** See Alternate Walkway Options for Additional Materials and their Costs

PRELIMINARY ENGINEER'S OPINION OF
PROBABLE CONSTRUCTION COST

Chen No: 120.001

Phase: Preliminary Design Evaluation

By: SB



El Mar Drive Cost Alternatives
Entire ROW - Datura Ave to Commercial Blvd.
Submitted July 24th, 2009
by Chen and Associates

Item No.	Description	Qty	Unit	Unit Price	Extended Price
Design					
1	Design Phase Services*	1	LS		\$ 73,147.58
General					
2	Mobilization & MOT (12% Total Construction Value)	1	LS		\$ 58,518.06
Landscaping / Furniture					
3	Remove Existing Brick Wall	2	LS	\$ 1,000.00	\$ 2,000.00
4	6' Colored Concrete Walkway**	550	LF	\$ 35.00	\$ 19,250.00
5	Pergola (Shade Structure)	3	EA	\$ 25,000.00	\$ 75,000.00
6	Bench Seat	6	EA	\$ 350.00	\$ 2,100.00
7	Trash Can	3	EA	\$ 300.00	\$ 900.00
8	Statue / Art Piece(s)	1	EA	\$ 25,000.00	\$ 25,000.00
9	New / Relocate Existing Pet Waste Stations	2	EA	\$ 100.00	\$ 200.00
Landscaping					
10	Relocate Existing Trees	20	EA	\$ 300.00	\$ 6,000.00
11	Relocate Existing Shrub/Plants	75	EA	\$ 300.00	\$ 22,500.00
12	Field Grown Palm Trees (12'-14' zeriscapae, low maint)	15	EA	\$ 1,350.00	\$ 20,250.00
13	Field Grown Shade Trees (zeriscapae, low maint)	10	EA	\$ 650.00	\$ 6,500.00
14	Shrubby / Bushes (zeriscapae, low maint)	600	EA	\$ 13.00	\$ 7,800.00
15	Ground Cover (zeriscapae, low maint)	300	EA	\$ 8.00	\$ 2,400.00
16	Sod	200	SY	\$ 9.00	\$ 1,800.00
17	Earthwork/Regrading	150	CY	\$ 2.75	\$ 412.50
Miscellaneous					
18	Relocate Irrigation System Controls and Piping	1	LS	\$ 1,500.00	\$ 1,500.00
19	Lighting	12	EA	\$ 2,750.00	\$ 33,000.00
Roadway / Sidewalk					
20	Remove Existing Sidewalk	900	LF	\$ 6.00	\$ 5,400.00
21	8' Colored Concrete Sidewalk	900	LF	\$ 48.00	\$ 43,200.00
22	2' Curb and Gutter	900	LF	\$ 7.00	\$ 6,300.00
23	ADA Ramps	10	EA	\$ 250.00	\$ 2,500.00
24	Roadway Resurfacing	2,300	SY	\$ 7.50	\$ 17,250.00
25	Striping and Signage	1	LS	\$ 5,225.50	\$ 5,225.50
Drainage					
26	Catch Basin	5	EA	\$ 3,500.00	\$ 17,500.00
27	Drainage Pipe	800	LF	\$ 45.00	\$ 36,000.00
28	Exfiltration Trench	175	LF	\$ 150.00	\$ 26,250.00
28	Yard Drain	5	EA	\$ 1,200.00	\$ 6,000.00
29	Remove Existing Drainage System	975	LF	\$ 7.50	\$ 7,312.50
Sewer Replacement					
30	8" PVC Sewer Pipe	650	LF	\$ 50.00	\$ 32,500.00
31	Laterals (Short)	12	EA	\$ 1,100.00	\$ 13,200.00
32	Laterals (Long)	5	EA	\$ 1,500.00	\$ 7,500.00
33	Maintenance Access Structures	4	EA	\$ 3,100.00	\$ 12,400.00
34	Roadway Restoration	500	SY	\$ 45.00	\$ 22,500.00
Total:					\$ 619,316

* Includes Landscape Architect and Certified Arborist, Civil and Structural Engineering Design, Construction Inspection, Permitting, Permit fees

** See Alternate Walkway Options for Additional Materials and their Costs

PRELIMINARY ENGINEER'S OPINION OF
PROBABLE CONSTRUCTION COST

Chen No: 120.001

Phase: Preliminary Design Evaluation

By: SB



El Mar Drive Cost Alternatives
Entire ROW - Commercial Blvd. to Pine
Submitted July 24th, 2009
by Chen and Associates

Item No.	Description	Qty	Unit	Unit Price	Extended Price
Design					
1	Design Phase Services*	1	LS		\$ 266,160.30
General					
2	Mobilization & MOT (12% Total Construction Value)	1	LS		\$ 212,928.24
Hardscaping / Furniture					
3	Remove Existing Brick Wall	5	LS	\$ 1,000.00	\$ 5,000.00
4	6' Colored Concrete Walkway**	2,150	LF	\$ 35.00	\$ 75,250.00
5	Pergola (Shade Structure)	13	EA	\$ 25,000.00	\$ 325,000.00
6	Bench Seat	26	EA	\$ 350.00	\$ 9,100.00
7	Trash Can	13	EA	\$ 300.00	\$ 3,900.00
8	Statue / Art Piece(s)	3	EA	\$ 25,000.00	\$ 75,000.00
9	New / Relocate Existing Pet Waste Stations	8	EA	\$ 100.00	\$ 800.00
Landscaping					
10	Relocate Existing Trees	192	EA	\$ 300.00	\$ 57,600.00
11	Relocate Existing Shrub/Plants	309	EA	\$ 300.00	\$ 92,700.00
12	Field Grown Palm Trees (12'-14' zeriscacape, low maint)	130	EA	\$ 1,350.00	\$ 175,500.00
13	Field Grown Shade Trees (zeriscacape, low maint)	95	EA	\$ 650.00	\$ 61,750.00
14	Shrubbery / Bushes (zeriscacape, low maint)	900	EA	\$ 13.00	\$ 11,700.00
15	Ground Cover (zeriscacape, low maint)	750	EA	\$ 8.00	\$ 6,000.00
16	Sod	1,000	SY	\$ 9.00	\$ 9,000.00
17	Earthwork/Regrading	201	CY	\$ 2.75	\$ 552.75
Miscellaneous					
18	Relocate Irrigation System Controls and Piping	2	LS	\$ 1,500.00	\$ 3,000.00
19	Lighting	65	EA	\$ 2,750.00	\$ 178,750.00
Roadway / Sidewalk					
20	Remove Existing Sidewalk	3,900	LF	\$ 6.00	\$ 23,400.00
21	8' Colored Concrete Sidewalk	3,900	LF	\$ 48.00	\$ 187,200.00
22	2' Curb and Gutter	3,900	LF	\$ 7.00	\$ 27,300.00
23	ADA Ramps	22	EA	\$ 250.00	\$ 5,500.00
24	Roadway Resurfacing	9,450	SY	\$ 7.50	\$ 70,875.00
25	Striping and Signage	1	LS	\$ 21,999.25	\$ 21,999.25
Drainage					
26	Catch Basin	22	EA	\$ 3,500.00	\$ 77,000.00
27	Drainage Pipe	2,250	LF	\$ 45.00	\$ 101,250.00
28	Exfiltration Trench	800	LF	\$ 150.00	\$ 120,000.00
28	Yard Drain	22	EA	\$ 1,200.00	\$ 26,400.00
29	Remove Existing Drainage System	3,050	LS	\$ 7.50	\$ 22,875.00
Total:					\$ 2,253,491

* Includes Landscape Architect and Certified Arborist, Civil and Structural Engineering Design, Construction Inspection, Permitting, Permit fees

** See Alternate Walkway Options for Additional Materials and their Costs

Note: Sewer Not included because it is owned by the City of Pompano Beach

PRELIMINARY ENGINEER'S OPINION OF
PROBABLE CONSTRUCTION COST

Chen No: 120.001

Phase: Preliminary Design Evaluation

By: SB



El Mar Drive Cost Alternatives
Entire ROW - Commercial Blvd. to Washingtonia
Submitted July 24th, 2009
by Chen and Associates

Item No.	Description	Qty	Unit	Unit Price	Extended Price
Design					
1	Design Phase Services*	1	LS		\$ 148,940.89
General					
2	Mobilization & MOT (12% Total Construction Value)	1	LS		\$ 119,152.71
Hardscaping / Furniture					
3	Remove Existing Brick Wall	3	LS	\$ 1,000.00	\$ 3,000.00
4	6' Colored Concrete Walkway**	1,350	LF	\$ 35.00	\$ 47,250.00
5	Pergola (Shade Structure)	8	EA	\$ 25,000.00	\$ 200,000.00
6	Bench Seat	16	EA	\$ 350.00	\$ 5,600.00
7	Trash Can	8	EA	\$ 300.00	\$ 2,400.00
8	Statue / Art Piece(s)	2	EA	\$ 25,000.00	\$ 50,000.00
9	New / Relocate Existing Pet Waste Stations	6	EA	\$ 100.00	\$ 600.00
Landscaping					
10	Relocate Existing Trees	150	EA	\$ 300.00	\$ 45,000.00
11	Relocate Existing Shrub/Plants	300	EA	\$ 300.00	\$ 90,000.00
12	Field Grown Palm Trees (12'-14' zeriscacape, low maint)	50	EA	\$ 1,350.00	\$ 67,500.00
13	Field Grown Shade Trees (zeriscacape, low maint)	15	EA	\$ 650.00	\$ 9,750.00
14	Shrubbery / Bushes (zeriscacape, low maint)	50	EA	\$ 13.00	\$ 650.00
15	Ground Cover (zeriscacape, low maint)	150	EA	\$ 8.00	\$ 1,200.00
16	Sod	500	SY	\$ 9.00	\$ 4,500.00
17	Earthwork/Regrading	1	CY	\$ 2.75	\$ 2.75
Miscellaneous					
18	Relocate Irrigation System Controls and Piping	1	LS	\$ 1,500.00	\$ 1,500.00
19	Lighting	45	EA	\$ 2,750.00	\$ 123,750.00
Roadway / Sidewalk					
20	Remove Existing Sidewalk	2,200	LF	\$ 6.00	\$ 13,200.00
21	8' Colored Concrete Sidewalk	2,200	LF	\$ 48.00	\$ 105,600.00
22	2' Curb and Gutter	2,200	LF	\$ 7.00	\$ 15,400.00
23	ADA Ramps	12	EA	\$ 250.00	\$ 3,000.00
24	Roadway Resurfacing	5,300	SY	\$ 7.50	\$ 39,750.00
25	Striping and Signage	1	LS	\$ 12,386.50	\$ 12,386.50
Drainage					
26	Catch Basin	12	EA	\$ 3,500.00	\$ 42,000.00
27	Drainage Pipe	900	LF	\$ 45.00	\$ 40,500.00
28	Exfiltration Trench	300	LF	\$ 150.00	\$ 45,000.00
28	Yard Drain	12	EA	\$ 1,200.00	\$ 14,400.00
29	Remove Existing Drainage System	1,200	LF	\$ 7.50	\$ 9,000.00
Total:					\$ 1,261,033

* Includes Landscape Architect and Certified Arborist, Civil and Structural Engineering Design, Construction Inspection, Permitting, Permit fees

** See Alternate Walkway Options for Additional Materials and their Costs

Note: Sewer Not included because it is owned by the City of Pompano Beach

PRELIMINARY ENGINEER'S OPINION OF
PROBABLE CONSTRUCTION COST

Chen No: 120.001

Phase: Preliminary Design Evaluation

By: SB



El Mar Drive Cost Alternatives
Entire ROW -Washingtonia Ave. to Pine Ave.
Submitted July 24th, 2009
by Chen and Associates

Item No.	Description	Qty	Unit	Unit Price	Extended Price
Design					
1	Design Phase Services*	1	LS		\$ 117,219.41
General					
2	Mobilization & MOT (12% Total Construction Value)	1	LS		\$ 93,775.53
Hardscaping / Furniture					
3	Remove Existing Brick Wall	2	LS	\$ 1,000.00	\$ 2,000.00
4	6' Colored Concrete Walkway**	800	LF	\$ 35.00	\$ 28,000.00
5	Pergola (Shade Structure)	5	EA	\$ 25,000.00	\$ 125,000.00
6	Bench Seat	10	EA	\$ 350.00	\$ 3,500.00
7	Trash Can	5	EA	\$ 300.00	\$ 1,500.00
8	Statue / Art Piece(s)	1	EA	\$ 25,000.00	\$ 25,000.00
9	New / Relocate Existing Pet Waste Stations	2	EA	\$ 100.00	\$ 200.00
Landscaping					
10	Relocate Existing Trees	42	EA	\$ 300.00	\$ 12,600.00
11	Relocate Existing Shrub/Plants	9	EA	\$ 300.00	\$ 2,700.00
12	Field Grown Palm Trees (12'-14' zeriscacape, low maint)	80	EA	\$ 1,350.00	\$ 108,000.00
13	Field Grown Shade Trees (zeriscacape, low maint)	80	EA	\$ 650.00	\$ 52,000.00
14	Shrubbery / Bushes (zeriscacape, low maint)	850	EA	\$ 13.00	\$ 11,050.00
15	Ground Cover (zeriscacape, low maint)	600	EA	\$ 8.00	\$ 4,800.00
16	Sod	500	SY	\$ 9.00	\$ 4,500.00
17	Earthwork/Regrading	200	CY	\$ 2.75	\$ 550.00
Miscellaneous					
18	Relocate Irrigation System Controls and Piping	1	LS	\$ 1,500.00	\$ 1,500.00
19	Lighting	20	EA	\$ 2,750.00	\$ 55,000.00
Roadway / Sidewalk					
20	Remove Existing Sidewalk	1,700	LF	\$ 6.00	\$ 10,200.00
21	8' Colored Concrete Sidewalk	1,700	LF	\$ 48.00	\$ 81,600.00
22	2' Curb and Gutter	1,700	LF	\$ 7.00	\$ 11,900.00
23	ADA Ramps	10	EA	\$ 250.00	\$ 2,500.00
24	Roadway Resurfacing	4,150	SY	\$ 7.50	\$ 31,125.00
25	Striping and Signage	1	LS	\$ 9,612.75	\$ 9,612.75
Drainage					
26	Catch Basin	10	EA	\$ 3,500.00	\$ 35,000.00
27	Drainage Pipe	1,350	LF	\$ 45.00	\$ 60,750.00
28	Exfiltration Trench	500	LF	\$ 150.00	\$ 75,000.00
28	Yard Drain	10	EA	\$ 1,200.00	\$ 12,000.00
29	Remove Existing Drainage System	1,850	LF	\$ 7.50	\$ 13,875.00
Total:					\$ 992,458

- * Includes Landscape Architect and Certified Arborist, Civil and Structural Engineering Design, Construction Inspection, Permitting, Permit fees
- ** See Alternate Walkway Options for Additional Materials and their Costs

Note: Sewer Not included because it is owned by the City of Pompano Beach

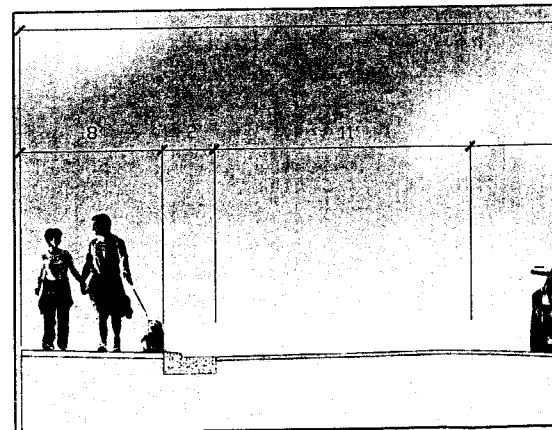
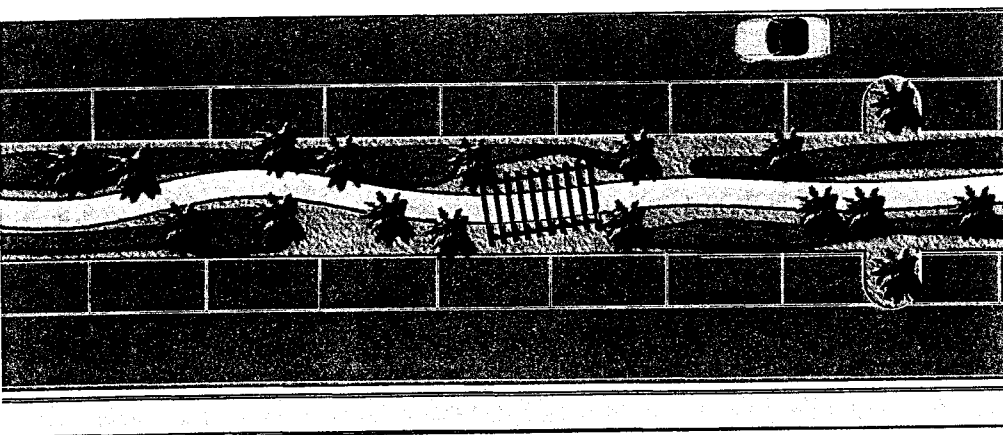
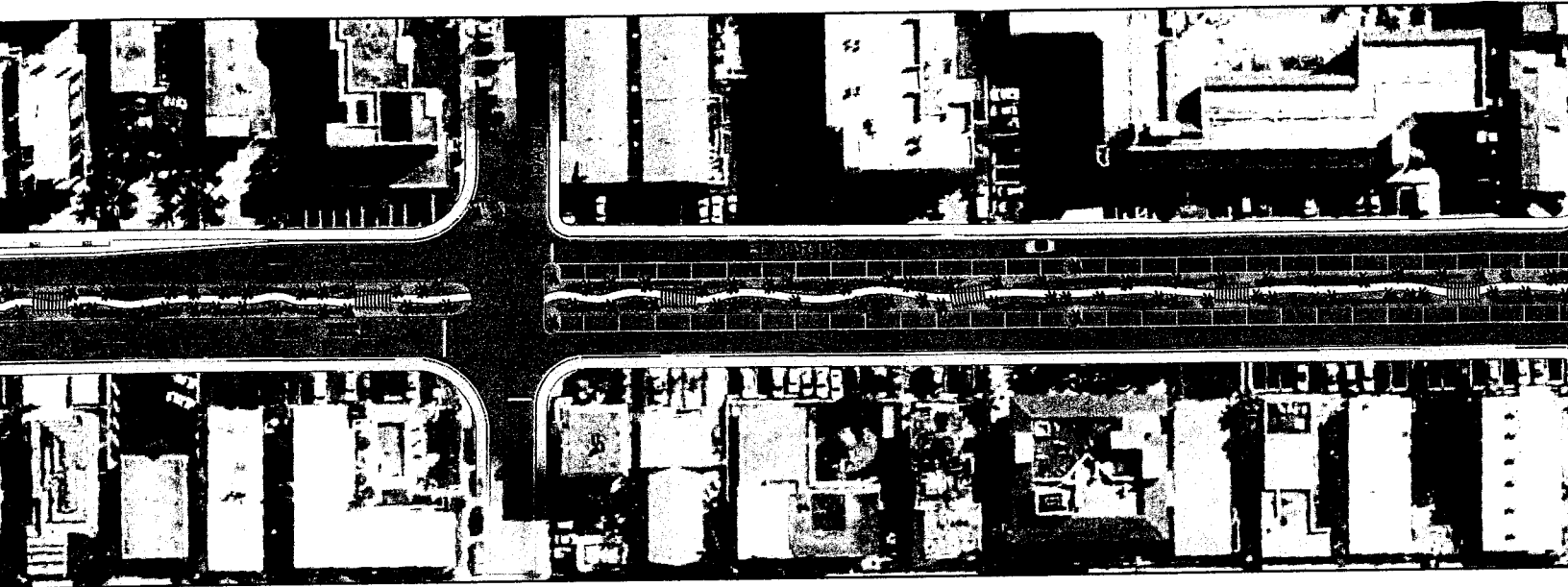
PRELIMINARY ENGINEER'S OPINION Chen No: 120.001
 PROBABLE CONSTRUCTION COST Phase: Preliminary Design Evaluation
 By: SB



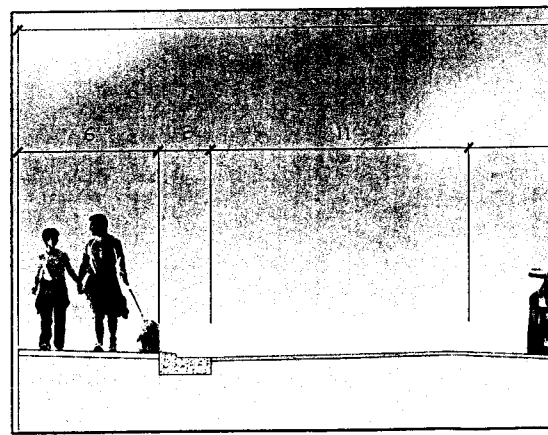
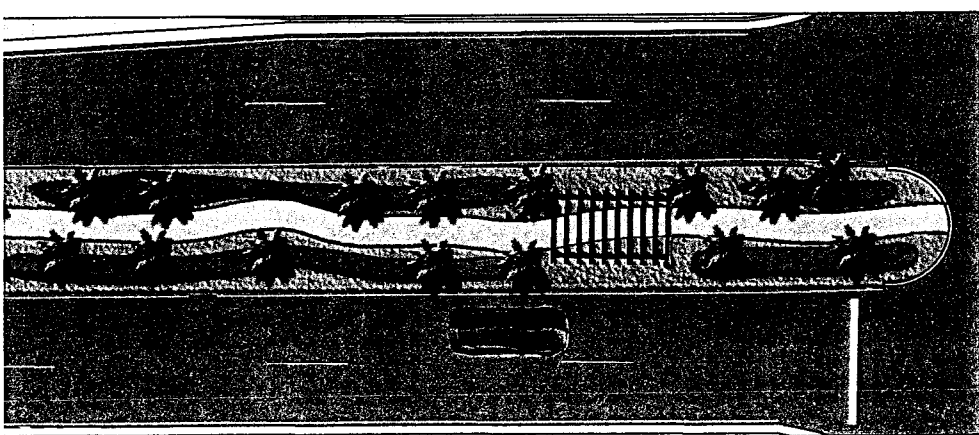
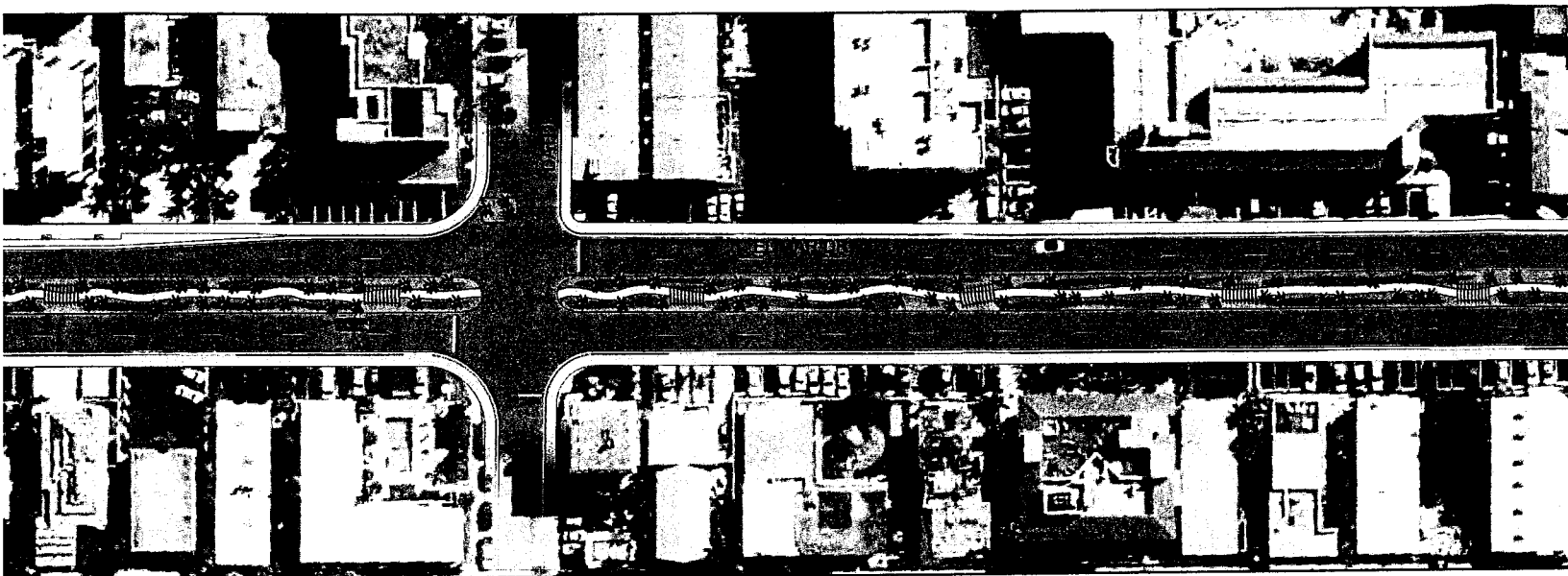
El Mar Drive Cost Alternatives
Alternate Path Options
 Submitted July 24th, 2009
 by Chen and Associates

Item No.	Description	Qty	Unit	Unit Price	Total
Walkway Material Options					
1	Concrete (standard grey)*	2,000	LF	\$ 13.50	\$ 27,000.00
2	Colored Concrete (LBTS Std.)*	2,000	LF	\$ 35.00	\$ 70,000.00
3	Pavers	2,000	LF	\$ 50.00	\$ 100,000.00
4	Colored Stamped Concrete	2,000	LF	\$ 55.00	\$ 110,000.00

* Assumed 6' Width
 Indicates High Maintenance



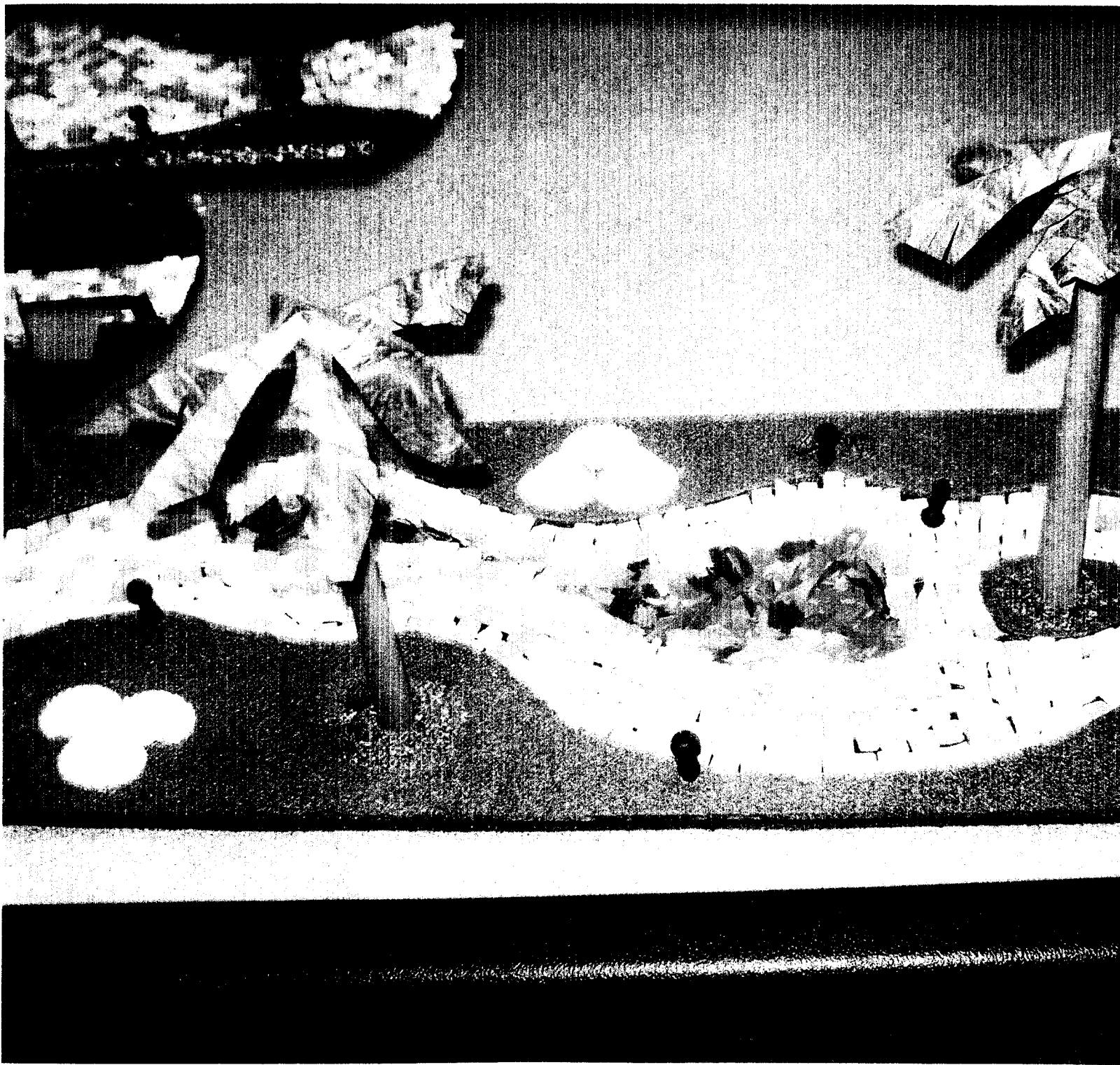
Lauderdale-by-the-Sea
 El Mar Drive
 One Lane Option

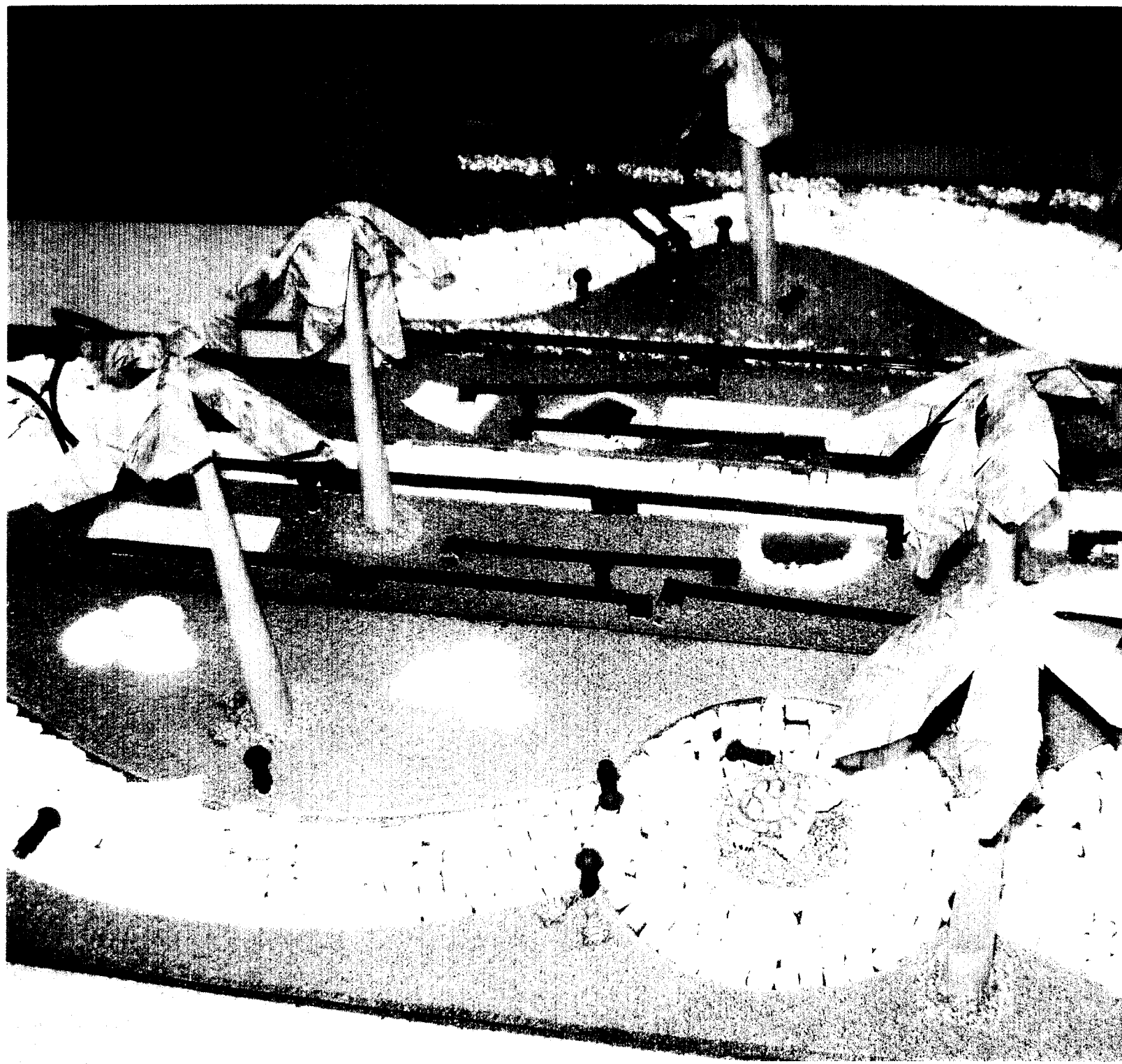


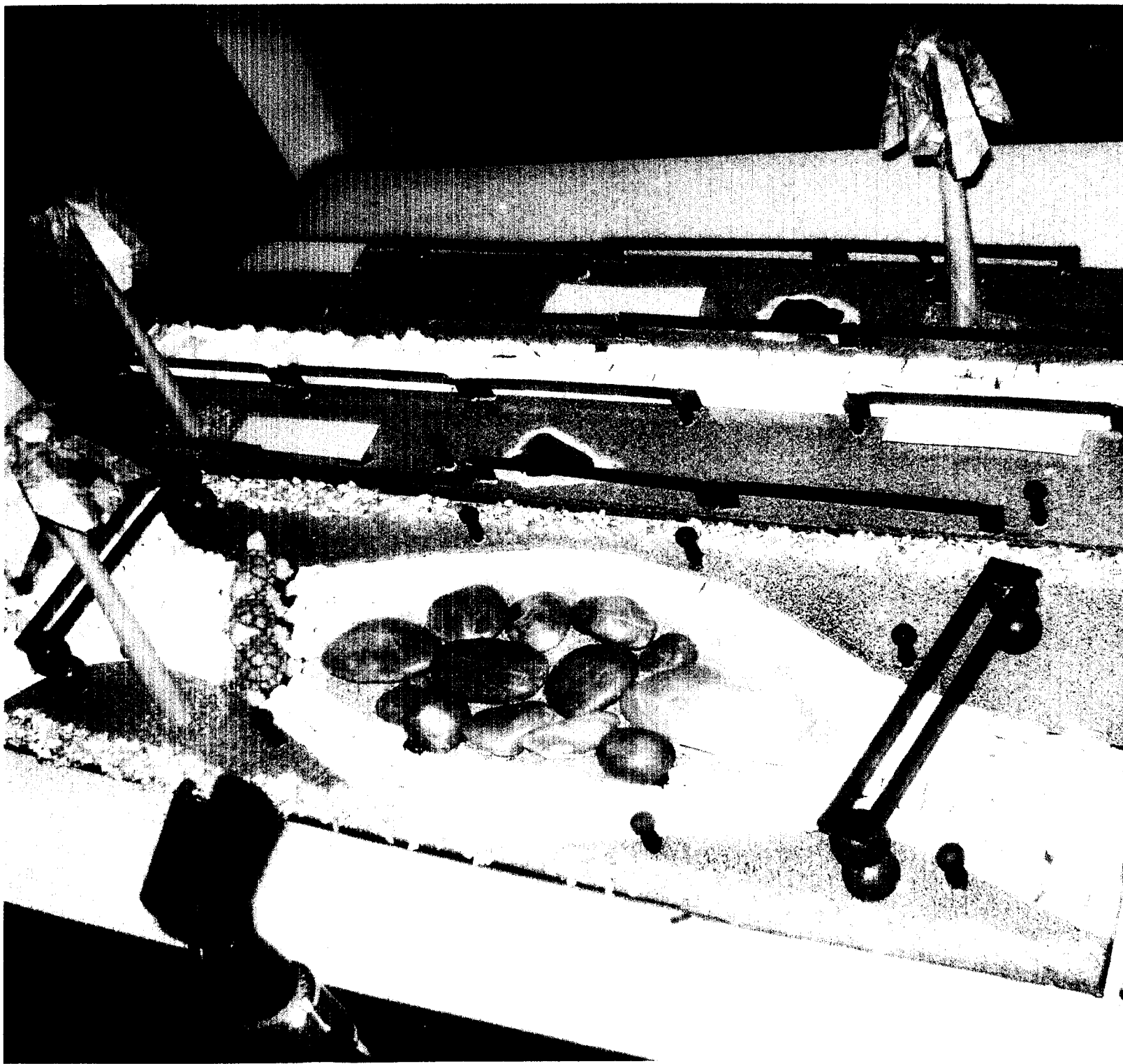
Lauderdale-by-the-Sea
El Mar Drive
Two Lane Option

1st PLACE

**MARIA GALINDO
AND
ALBERTO RONAN**

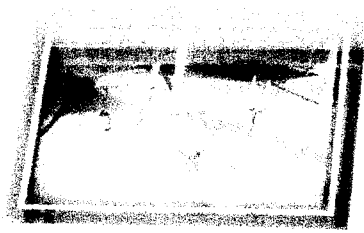
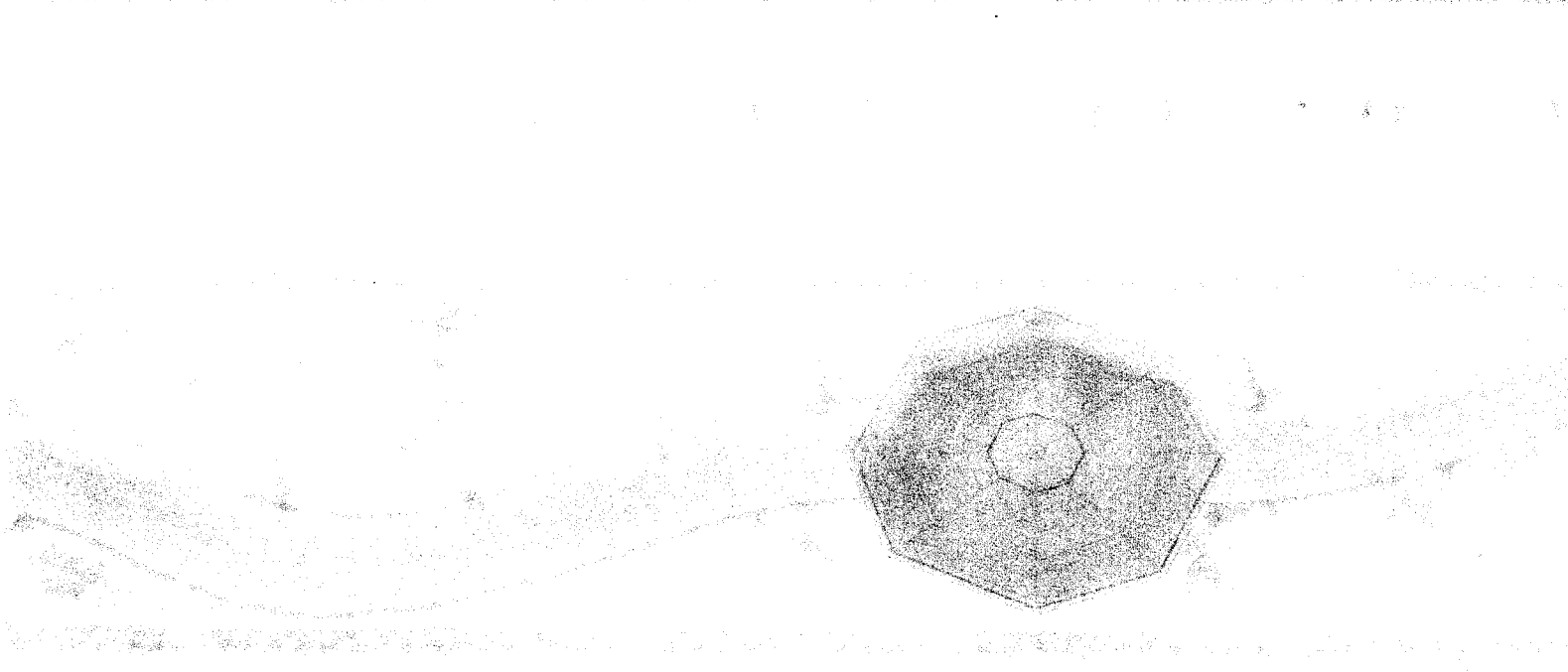
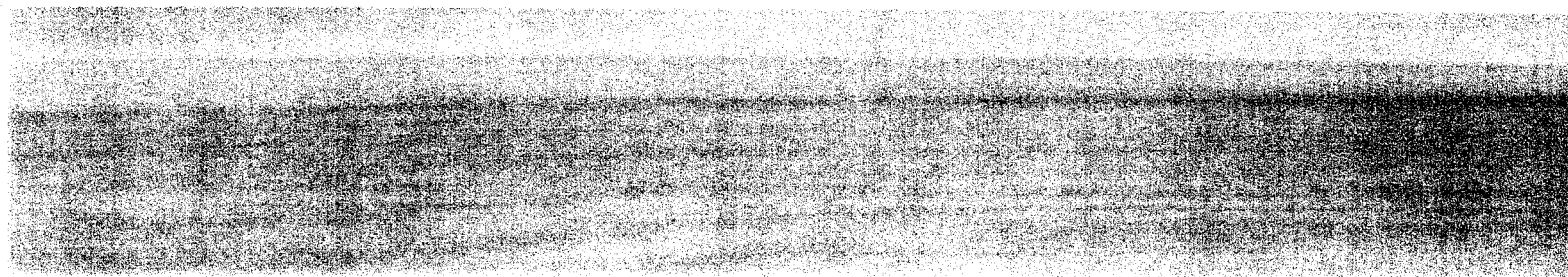




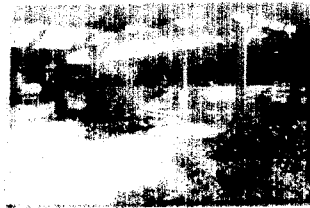
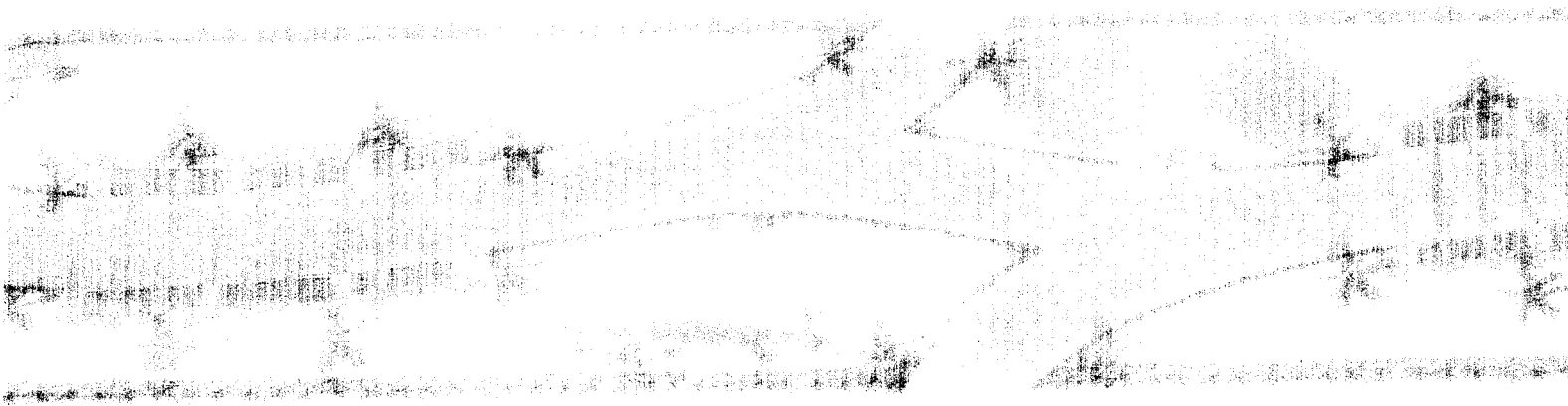


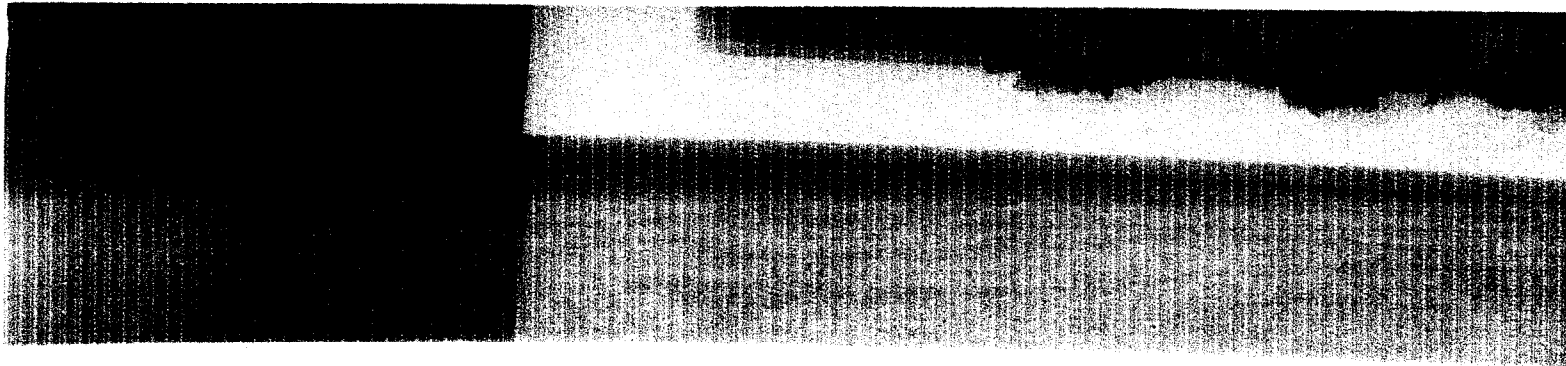
2nd PLACE

ISABELLA SERNA

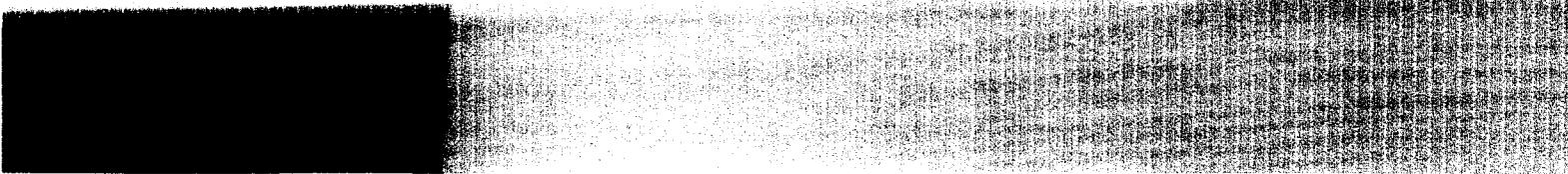
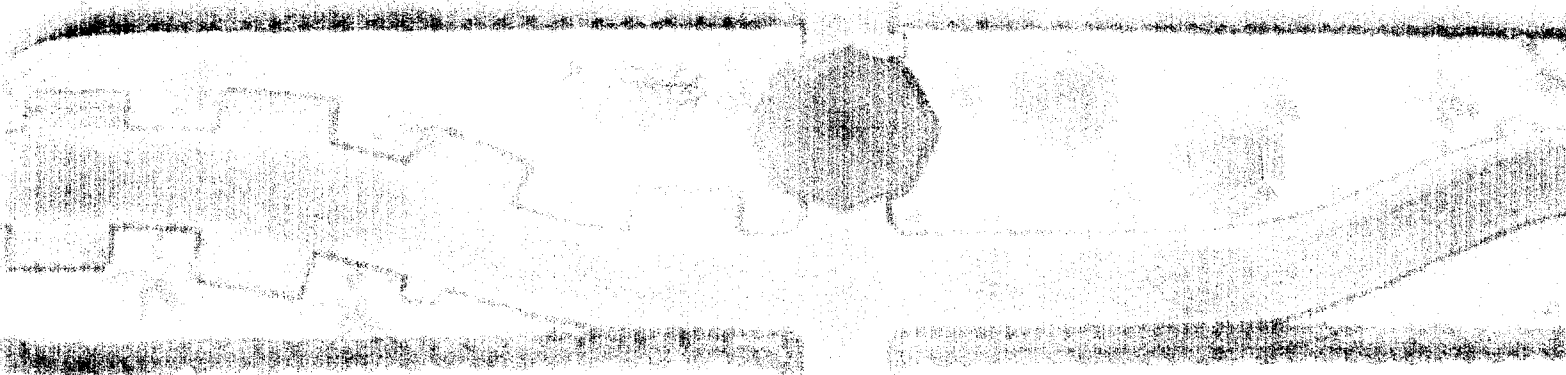


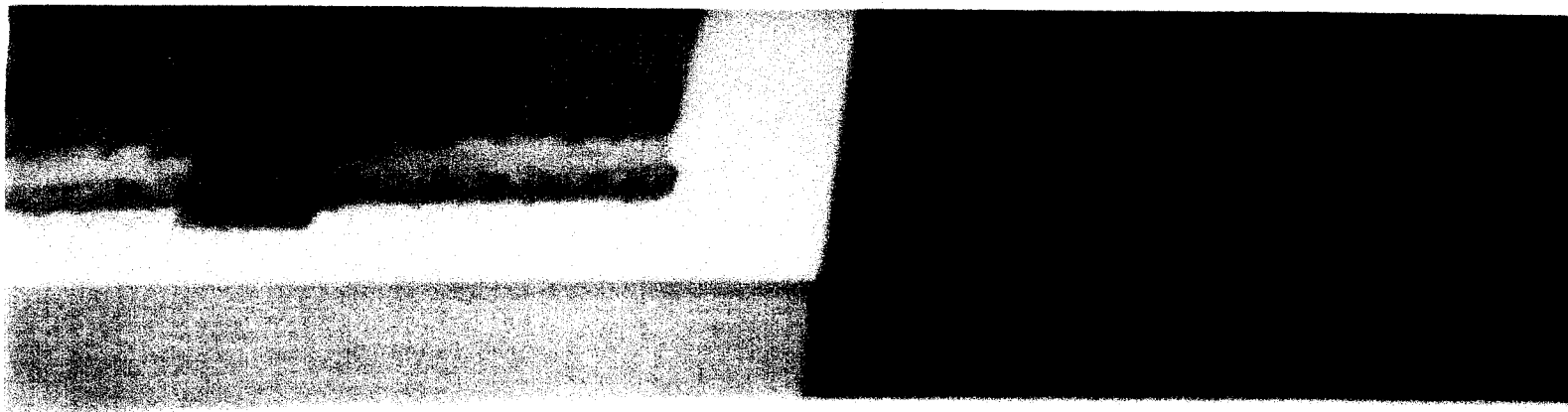
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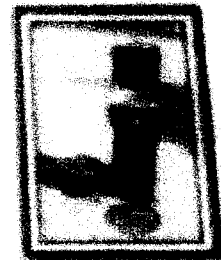
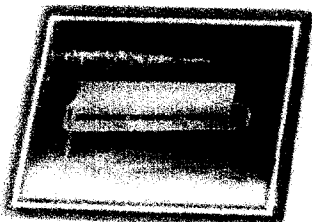
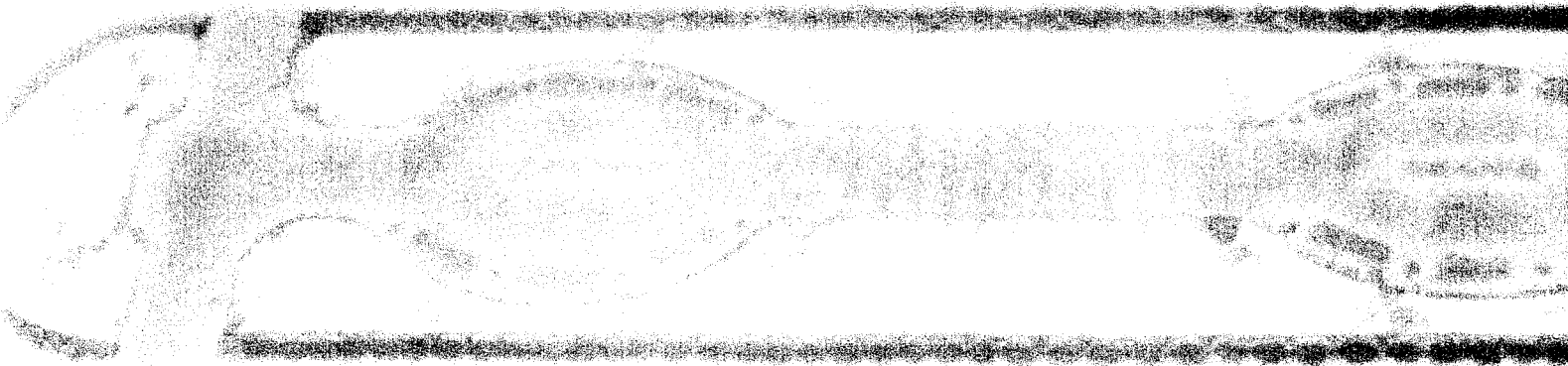


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3rd PLACE

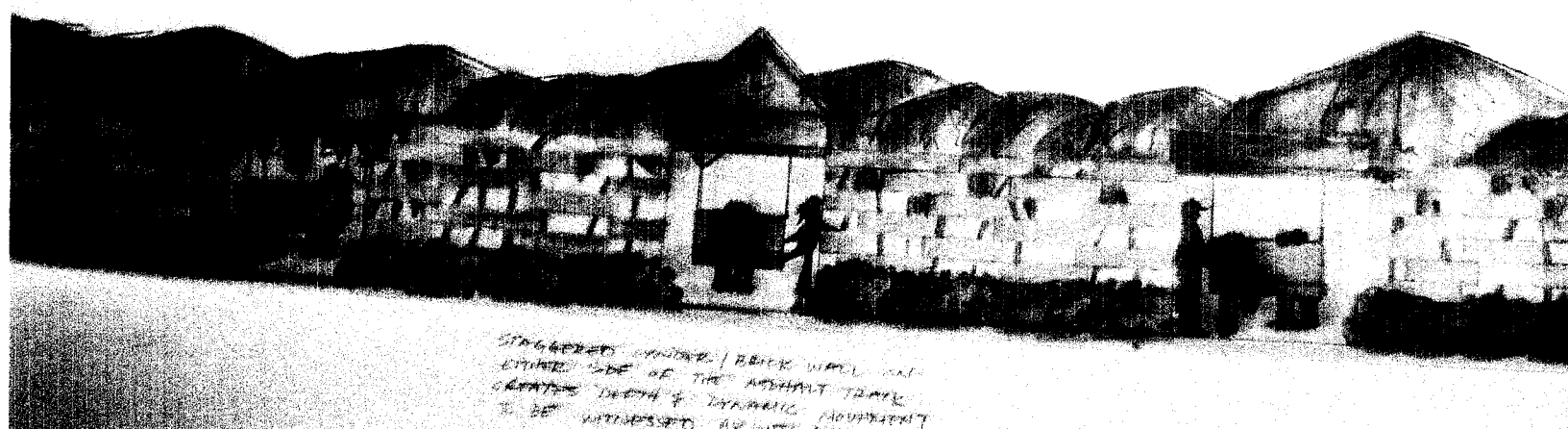
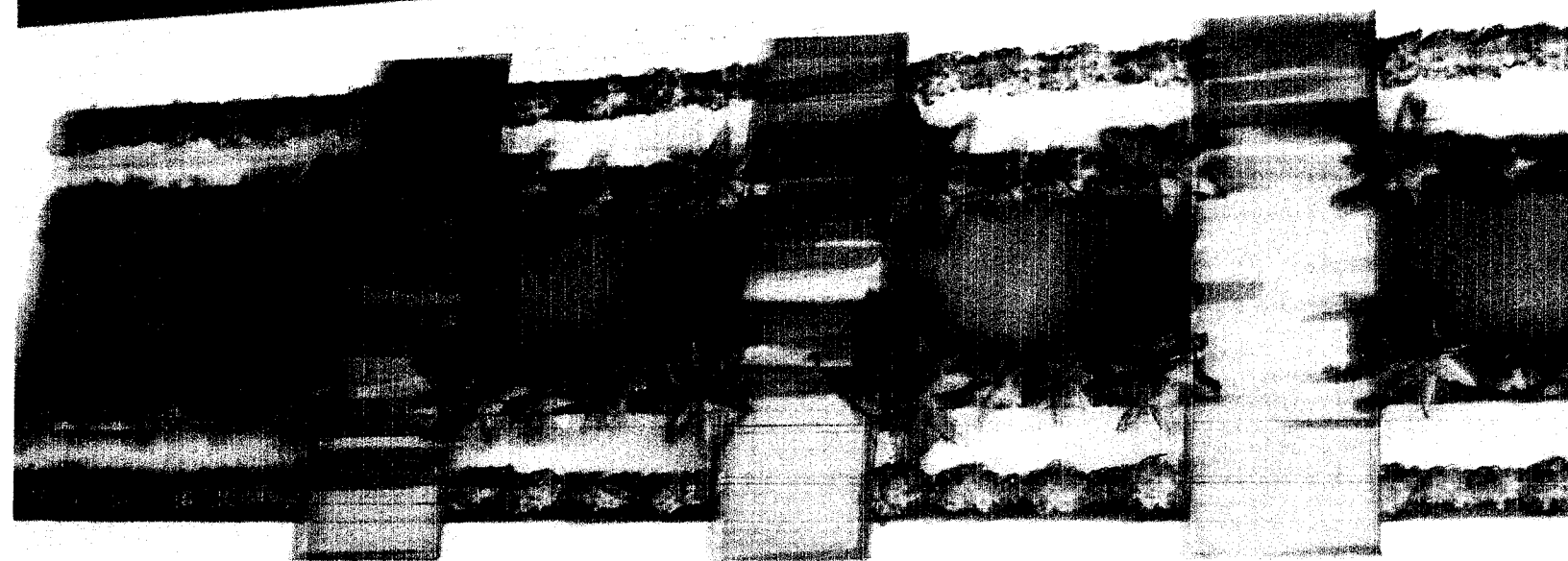
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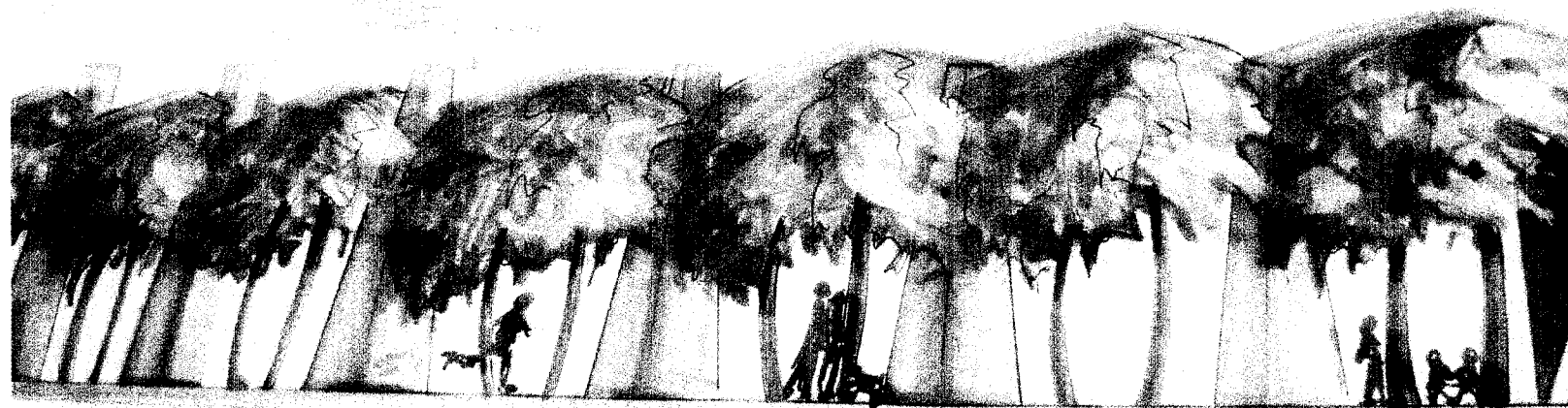


CONCRETE & WOODEN
SHELTER HOUSE AT
BUSHY HILL &
LANDSCAPING.



THE LUSH
TROPICAL
LANDSCAPE.





ELEVATED SIDE VIEW

2 MORE LANE
 BE LONGER BEHIND
 IT NEEDED MORE
 MORE BE USED IN
 LONG CALIBRE
 KINNERS, OR LINDA